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OM nucleic - nucleic search, using bw model

Run on: December 2, 2005, 14:31:47 ; Search time 341.745 Seconds
(without alignments)
7937.378 Million cell updates/sec

Title: US-09-979-558a-1

Perfect score: 1526
Sequence: 1 ttctgacatgcctccacgatt.....acctgcgctgacacctc 1526

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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9: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1211	79.4	269223	US-09-596-002-41	Sequence 41, App1
2	1195	78.3	1485	US-08-299-810A-27	Sequence 27, App1
3	1098.6	72.0	1501	US-09-793-920A-1	Sequence 1, App1
4	1098.6	72.0	1501	US-09-821-016-5	Sequence 5, App1
5	1098.6	72.0	1501	US-09-745-476-1	Sequence 1, App1
6	1098.6	72.0	1501	US-09-748-205-1	Sequence 1, App1
7	1098.6	72.0	1501	US-09-951-720-1	Sequence 1, App1
8	1098.6	72.0	1501	US-10-411-319-1	Sequence 1, App1
9	1098.6	72.0	1501	US-10-105-305-1	Sequence 1, App1
10	1098.6	72.0	1501	US-10-266-787-5	Sequence 5, App1
11	1098.6	72.0	1501	US-09-791-610-1	Sequence 1, App1
12	1098.6	72.0	1501	US-10-252-518-5	Sequence 5, App1
13	1076	70.5	1542	US-08-114-695A-1	Sequence 1, App1
14	1070.8	70.4	1481	US-09-737-297-4	Sequence 4, App1
15	1069.2	70.1	1542	US-09-726-774-3	Sequence 3, App1
16	1069.2	70.1	1542	US-08-757-653-158	Sequence 158, App1
17	1069.2	70.1	1542	US-09-465-355-2	Sequence 2, App1
18	1069.2	70.1	1542	US-08-520-946-158	Sequence 158, App1
19	1069.2	70.1	1542	US-09-655-378A-158	Sequence 158, App1
20	1069.2	70.1	1542	US-09-548-998B-33	Sequence 33, App1
21	1069.2	69.6	1542	US-10-061-071-33	Sequence 33, App1
22	1068.2	69.3	1549	US-09-726-774-2	Sequence 2, App1
23	1058.2	69.3	1549	US-09-492-709A-89	Sequence 89, App1
24	1058.2	69.3	1549	US-09-492-709A-242	Sequence 242, App1

25	1058.2	69.3	1549	US-09-492-709A-402	Sequence 402, App1
26	1053.6	69.0	1518	US-08-114-695A-6	Sequence 6, App1
27	1052.4	69.0	1487	US-09-726-774-14	Sequence 14, App1
28	1046.8	68.6	1424	US-10-007-527A-12	Sequence 12, App1
29	1039.2	68.1	1506	US-10-278-942-1	Sequence 1, App1
30	1039.2	68.1	1506	US-10-694-352-1	Sequence 1, App1
31	1031.2	67.6	1500	US-09-726-774-4	Sequence 4, App1
32	1027.8	67.4	1486	US-09-737-297-1	Sequence 1, App1
33	1025.2	67.2	1544	US-09-726-774-5	Sequence 5, App1
34	1019.8	66.8	1540	US-09-228-184-1	Sequence 1, App1
35	1019.8	66.8	1540	US-09-967-376-1	Sequence 1, App1
36	1016.4	66.6	1429	US-09-934-868-81	Sequence 81, App1
37	1016.4	66.6	1429	US-10-701-200-81	Sequence 81, App1
38	1014.8	66.5	640681	US-09-790-988-1	Sequence 1, App1
39	1008.8	66.1	1830121	US-09-557-884-1	Sequence 1, App1
40	1008.8	66.1	1830121	US-09-557-884-1	Sequence 1, App1
41	1008.8	66.1	1830121	US-09-643-990A-1	Sequence 1, App1
42	1008.8	66.1	1830121	US-09-643-990A-1	Sequence 1, App1
43	1008.8	66.1	1830121	US-10-158-865-1	Sequence 1, App1
44	1008.8	66.1	1830121	US-10-158-865-1	Sequence 1, App1
45	1004.2	65.8	1484	US-08-632-470-53	Sequence 53, App1

ALIGNMENTS

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RESULT 1
US-09-596-002-41/c
; Sequence 41, Application US/09596002
; Patent No. 6632636
; GENERAL INFORMATION:
; APPLICANT: Lagace, Robert, E.
; APPLICANT: Patterson, Chandra
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME
; FILE REFERENCE: PM-0008-4 US
; CURRENT APPLICATION NUMBER: US/09/596,002
; PRIOR FILING DATE: 2000-06-16
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PERL Program
; SEQ ID NO 41
; LENGTH: 269223
; TYPE: DNA
; ORGANISM: Moraxella catarrhalis
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte template ID No. 6632636 41
; PUBLICATION INFORMATION:
US-09-596-002-41

Query Match 79.4%; Score 1211; DB 3; Length 269223;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1361; Conservative 0; Mismatches 127; Indels 15; Gaps 6;

QY 30 GCGCGAGGCTTAACACATGCAAGTCGAGCGAAGCATGATGCTTCTGATTAGGCGTC 89
92956 GCGCGAGGCTTAACACATGCAAGTCGAGCGAAGCATGATGCTTCTGATTAGGCGTC 92901
QY 90 GAGCAGCGGAGCGGAGGAGTAATCTAGGAATCTAGTGTGGGGATGAGTCTGGG 149
92900 TTAGTGGCGGAGCGGAGGAGTAATCTAGGAATCTAGTGTGGGGATGAGTCTGGG 92841
Db 150 GAACTCGAATTATACCCGATACGTCATCGGAGAAAGCAGGGGATCATTAACCTTGC 209
92840 GAAACCAAGCTAATACCCGATACGTCATCGGAGAAAGCAGGGGATCATTAACCTTGC 92785
QY 210 GCTATTGATGAGCTTAAGTCTGAGTTAGTGAATGTTGGGTTAAAGCCCTACATGGCGA 269
92784 GCTATTGATGAGCTTAAGTCTGAGTTAGTGAATGTTGGGTTAAAGCCCTACATGGCGA 92725
QY 270 CGATCTGTAGCTGTGTGAGAGATATATGCAACACCGGAGCTGAGAGACGCGCGGAC 329
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DB 92724 CATCTGTAGCTGTGTGAGAGATGATCAGCACCTGGGACTGAGACACGGCCACAG 92665
330 T-CTAGGGAGAGAGAGAGTGGGAAAT-----ATTGACAAATGNGGGAACCTGATCCAG 383
DB 92664 TCTTACGGGAGGAGAGAGTGGGAAATTTGGATTGACAAATGGGCGCAAGCCCTGATCCAG 92605
384 CCATGCCGCGTGTGTGAAGAGAGCTTTGTGTGAAGCACTTTAAGCAGTGAAGAGA 443
DB 92604 CCATGCCGCGTGTGTGAAGAGAGCTTTGTGTGTGAAGCACTTTAAGTGGGAGAGAAA 92545
444 CTCTTGGTTAATATCCCGGGGACGATGACATTAAGCTGCAAGATTAACACCGGCTAACTCT 503
DB 92544 GCTTATGTTAATATCCCATTAAGCCCTGAGCTTACCAAGAAATTAACACCGGCTAACTCT 92485
504 GTGCCAGAGCCGCGGTTAATACAGAGGTGCAAGCCCTTAATGGAATTAATCTGGGCGCTAA 563
DB 92484 GTGCCAGAGCCGCGGTTAATACAGAGGTGCAAGCCCTTAATGGAATTAATCTGGGCGCTAA 92425
564 GCGAGCGTAGTGGCTTGTATTAAGTCAAGATGTGAATATCCCGGCGCTTAACCTGGGAATCG 623
DB 92424 GCGGCGTAGTGGCTTATTAAGTCAAGATGTGAATATCCCGGCGCTTAACCTGGGAATCG 92365
624 ATCTGAACTGTTAAGCTAGTAGTGAAGGAGAAATTAAGTCAAGTGTGACGGTGA 683
DB 92364 ATCTGACTGTGATTAAGTAGTAGTGAAGGAGGAGTGAATTCAGGTTAGCGTGA 92305
684 AATGCGTAGAGANTCTAAGAAATACGATAGCGGAGGAGGAGCTTCCGCGATCACTATGAC 743
DB 92304 AATGCGTAGAGANTCTAAGAAATACGATAGCGGAGGAGGAGCTTCCGCGATCACTATGAC 92245
744 ACTGAGCTCGAAAGCGTGGTGAAGAAAGATTAAGTATCCCTGTTAGTCCACGCGCTGA 803
DB 92244 ACTGAGCTCGAAAGCGTGGTGAAGAAAGATTAAGTATCCCTGTTAGTCCACGCGCTGA 92185
804 AAGCATGTCTACTAGTGTGGTCCCTTGAGAGACTTAAGTACGACGCTTAACGCAATTAAG 863
DB 92184 AAGCATGTCTACTAGTGTGGTCCCTTGAGAGACTTAAGTACGACGCTTAACGCAATTAAG 92125
864 TAGACCGCGCTGGGAGTACGGGCGGAGGTTAAACTCAAAATGAATTAAGCGGGGCGCGCG 923
DB 92124 TAGACCGCGCTGGGAGTACGGGCGGAGGTTAAACTCAAAATGAATTAAGCGGGGCGCGCG 92065
924 ACAAGCGGTGAGCATGTGTTAATTCATGACGACGCAAGAACTTAAGTCTGTTGA 983
DB 92064 ACAAGCGGTGAGCATGTGTTAATTCATGACGACGCAAGAACTTAAGTCTGTTGA 92005
984 CATACACAGAAATCTTGTAGAGATACGAGAGTGCCTTCGGGAATTTGTGATACAGTGTCTGC 1043
DB 92004 CATAGTGAATCTTGTAGAGATACGAGAGTGCCTTCGGGAATTTGTGATACAGTGTCTGC 91945
1044 ATGGCTGTGTGACGCTGTGTGTGTGAGATGTTGGGTTAGTCCCGGAAAGAGCGCAACCC 1103
DB 91944 ATGGCTGTGTGACGCTGTGTGTGTGAGATGTTGGGTTAGTCCCGGAAAGAGCGCAACCC 91885
1104 TTGTCTTGTAGTACGACATTCGAGTGGGAACTTAAGGATTAAGTCTGAGTGAACAACTG 1163
DB 91884 TTGTCTTGTAGTACGACATTCGAGTGGGAACTTAAGGATTAAGTCTGAGTGAACAACTG 91825
1164 GAGGAAGCGGGGAGCAGCTCAAGTATCATATGAGCCCTTAACGACAGGCGCTACACAGTGC 1223
DB 91824 GAGGAAGCGGGGAGCAGCTCAAGTATCATATGAGCCCTTAACGACAGGCGCTACACAGTGC 91765
1224 TACAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 1283
DB 91764 TACAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 91705
1284 TGTAGTCCAGATTGAGTCTGCACTCATGATCATGATGAGTGAAGTCCCTGATATCCG 1343
DB 91704 TGTAGTCCAGATTGAGTCTGCACTCATGATCATGATGAGTGAAGTCCCTGATATCCG 91645
1344 GGATCAGAAATGCGCGGTGAATATGTTCCCGGGCTTGTACACACCGCGCTACACAT 1403

DB 91644 AGATCAGATGCTGCGGTGAATACGTTCCCGGCGCTTGTACACACCGCGCTACACCAT 91585
QY 1404 GGGAGTTGATTCACACAGAGTGTAGCTTAATTAAGAGGGGATACACAGGTTG 1463
DB 91584 GGGAGTTGATTCACACAGAGTGTAGCTTAATTAAGAGGGGATACACAGGTTG 91526
QY 1464 GTGATGACTGGGGTGAAGTCTTAACAAGTACGCGTAGGGGAACTGCGGTGATCAC 1523
DB 91526 GTGATGACTGGGGTGAAGTCTTAACAAGTACGCGTAGGGGAACTGCGGTGATCAC 91466
QY 1524 CTC 1526
DB 91465 CTC 91463
RESULT 2
US-08-299-810A-27
Sequence 27, Application US/08299810A
GENERAL INFORMATION:
PATENT NO. 5721097
APPLICANT: Rosseau, Rudi
TITLE OF INVENTION: HYBRIDIZATION PROBES FOR THE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESS: Merchant & Gould
STREET: 3100 No. 5721097west Center
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/299,810A
FILING DATE: 01-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hilleon, Randall A.
REGISTRATION NUMBER: 31,838
REFERENCE/DOCKET NUMBER: 8076.70-US-MO
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-332-5300
TELEFAX: 612-332-9081
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 1485 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Brachymeria catarrhalis
IMMEDIATE SOURCE:
CLONE: 16S rRNA Gene
US-08-299-810A-27
Query Match 78.3%; Score 1195; DB 2; Length 1485;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1552; Conservative 0; Mismatches 128; Indels 12; Gaps 7;

QY 36 AGCTTAACATGCAAGTGCAGCGGAAACGATGATAGCTTGTATAGGCGTGCAGCG 95
DB 1 AGCTTAACATGCAAGTGCAGCGGAAACGATGATAGCTTGTATAGGCGTGCAGCG 56
QY 96 CCGAGCGGTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 155
DB 57 GCGAGCGGTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 116

QY 156 CGAATTAATACCGCATTCGTCGAGGAGAAAGCAGGGGNTCATTAAGACTTGGCGTATT 215
DB 117 CAAGCTAATAACCCGATACGACCTACGCGGTGAAAGGGGG---CTTTAGCTCTCGCTAAT 172
QY 216 AGATGAGCCCTAAGTCCGATTAAGTGGTGGGTAAAGGCTTACCATATGCGACGATCT 275
DB 173 AGATGAGCTTAAGTCCGATTAAGTGGTGGGTAAAGGCTTACCATATGCGACGATCT 232
QY 276 GTAAGTGGTCTGAGAGATGATCAGCCACACCGGAGCTGAGACACGGCCGAGCT-CTAC 334
DB 233 GTAGTGGTCTGAGAGATGATCAGCCACACCTGGGAGCTGAGACACGGCCGAGCTCTTAC 292
QY 335 GGGAGGACAGACGTCGGGGAATATTGACCAATGNGGGAACTTATCCAGCAGCCGCT 394
DB 293 GGGAGGACAGACGTCGGGGAATATTGACCAATGNGGGAACTTATCCAGCAGCCGCT 352
QY 395 GTGTGAAGAAAGGCTTTTGGTTTAAAGCACTTTAAGCAGTGAAGAAACTCTTGGTTA 454
DB 353 GTGTGAAGAAAGGCTTTTGGTTTAAAGCACTTTAAGCAGTGAAGAAACTCTTGGTTA 412
QY 455 ATACCCGGGACGATGACATTAGCTGACAAATTAAGCACCGGCTTACTGTGTCAGCAGC 514
DB 413 ATACCCGATTAAGCCCTGACGTTACCCACAGATTAAGCACCGGCTTACTGTGTCAGCAGC 472
QY 515 CCGCGTAAATACAGAGGTGCAACGCTTAATCCGAAATTAATCTGGCCCTTAAGCGAGCTGAG 574
DB 473 CCGCGTAAATACAGAGGTGCAACGCTTAATCCG-ATTACCTGGCGTAAAGCGCGCGTAGG 531
QY 575 TGGCTTGAATTAAGTCAAGTGAATATCCCGGCTTAATCTGGGAACTGCACTGAAACTG 634
DB 532 TGGTTATTTAAGTCAAGTGAATATCCCGGCTTAATCTGGGAACTGCACTGATCTG 591
QY 635 TTAGGCTAGATAGTGAGAGGAGAAATTAATTAAGTGTAGCGGTGAAATCGTAAAG 694
DB 592 GATTAATAGATAGTGAGAGGAGGAGGAGTAAATTAAGTGTAGCGGTGAAATCGTAAAG 651
QY 695 ATCTGAAGAAATACCGATGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 754
DB 652 ATCTGAAGAAATACCGATGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 711
QY 755 AAAGCGGAGTACGAAACAGGATTAATGATACCTGCTGATGCAACGCGCTTAACGATGCTA 814
DB 712 AAAGCGGAGTACGAAACAGGATTAATGATACCTGCTGATGCAACGCGCTTAACGATGCTA 771
QY 815 CTAGTCCGTGGGTCCTTGAAGGACTTAAGTGAACGACGCTTAACGCAATTAAGTGAACGCGCTG 874
DB 772 CAGTGGTGGGTCCTTGAAGGACTTAAGTGAACGACGCTTAACGCAATTAAGTGAACGCGCTG 831
QY 875 GGGAGTACGCGCCGAGAGGTTAAATCTAAATGAATTAAGCGGAGGAGGAGGAGGAGGAGG 934
DB 832 GGGAGTACGCGCCGAGAGGTTAAATCTAAATGAATTAAGCGGAGGAGGAGGAGGAGGAGG 891
QY 935 AGGATGAGTGAATTAATGATGCAACGCGGAACTTAACGCTGCTTAACGATACAGAGAA 994
DB 892 AGGATGAGTGAATTAATGATGCAACGCGGAACTTAACGCTGCTTAACGATACAGAGAA 951
QY 995 TCTTGTAGAGATACGAGAGTGCCTTCGGAATTTGTGATACAGGTGCTGCAATGCTGTGCT 1054
DB 952 TCTTGTAGAGATACGAGAGTGCCTTCGGAATTTGTGATACAGGTGCTGCAATGCTGTGCT 1011
QY 1055 CAGCTCGTGTGAGATGTTGGTTAAAGTCCGCAACGAGCGCAACCTTTTCTTAAGT 1114
DB 1012 CAGCTCGTGTGAGATGTTGGTTAAAGTCCGCAACGAGCGCAACCTTTTCTTAAGT 1071
QY 1115 TACAGAGACTTGGGAGTGAATCTTAAGGATGCGCAGTGAACAACTGAGAGAGAGCGG 1174
DB 1072 TACAGAGACTTGGGAGTGAATCTTAAGGATGCGCAGTGAACAACTGAGAGAGAGCGG 1131
QY 1175 GAGAGAGTCAAGTCAATGAGCCCTTAACGACAGAGGCTACACAGTGTCTAACAATGGTAG 1234
DB 1132 GAGAGAGTCAAGTCAATGAGCCCTTAACGACAGAGGCTACACAGTGTCTAACAATGGTAG 1191
QY 1235 GTACAGAGGAGCTACACAGCAGTGTGATGCGAATCTCAAAAAGCCTATGTGTGCTAG 1294

DB 1192 GTACAGAGGAGTGTACACAGGATGTGATGTCTAATCTCAAAAAGCCTATCGATCCGG 1251
QY 1295 ATTGAGTCTGCAACTGCACTCCATGATAGTGAAGATTCGTAGTAAATTCGGGATCAGAAATG 1354
DB 1252 ATTGAGTCTGCAACTGCACTCCATGATAGTGAAGATTCGTAGTAAATTCGGGATCAGAAATG 1311
QY 1355 CCGCGGTGAATACGTTCCCGGGGCTTGTACACACGCGCCGTCACACATGAGGAGTTGATT 1414
DB 1312 CTGCGGTGAATACGTTCCCGGGGCTTGTACACACGCGCCGTCACACATGAGGAGTTGATT 1371
QY 1415 GCACAGAAAGTGGTTAGCCTTAATTAAGTGAAGGCGATCAACACGTTGTGTGATGATG 1474
DB 1372 TCACAGAAAGTGGTTAGCCTTAACGCA-AGAGGCGATCAACACGTTGTGTGATGATG 1430
QY 1475 GGGTGAAGTGTGAACAAGTGAAGCGGAACTTCGGCTGTGATCACTC 1526
DB 1431 GGGTGAAGTGTGAACAAGTGAAGCGGAACTTCGGCTGTGATCACTC 1481

RESULT 3
US-09-793-920A-1
; Sequence 1, Application US/09793920A
; Patent No. 6479621
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxythienylalkanoic acid as
; FILE REFERENCE: 4396021
; CURRENT APPLICATION NUMBER: US/09/793,920A
; CURRENT FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-793-920A-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GGGGCGAGGCTTAACATGCAAGTGCAGGAGGAAAGATGATGCTTATTAAGCGCTC 89
DB 9 GGGGCGAGGCTTAACATGCAAGTGCAGGAGG--ATGACGGAGCTTCTCTGAATTC 66
QY 90 GACGCGCGGAGCGGTGATTAATTAAGTGAATCTAATTAAGTGGGAGTATGCTCGG 149
DB 67 G---CGGCGGACGGGTGATTAATGCTAGGAACTCTGCTGTGTGGGAGCAACGCTC 123
QY 150 GAAACTGCAATTAATACCGCATACGT-CTACGGGAGAGAGAGGAGTCAATTAGCCTTG 208
DB 124 GAAAGGAGCGCTAATACCGCATACGTCTACGGGAGAGAGAGGAGGAGGAGGAGGAGGAGG 183
QY 209 CGCTAATTAAGTGAAGCCTTAATGCGATTAAGTGAAGTGTGGGTTAAAGGCGCTTACATGCG 268
DB 184 CGCTAATTAAGTGAAGCCTTAATGCGATTAAGTGAAGTGTGGGTTAAAGGCGCTTACATGCG 243
QY 269 ACGATCTGTGCTGTGCTGAGAGATGATGACACACCGGAGCTGAGACAGCGCCGGA 328
DB 244 ACGATCTGTGCTGTGCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 303
QY 329 CT-CTACGGGAGGAGGAGTGGGAAATATTGACCAATGAGGAGAACTCTGATCCAGCAT 387
DB 304 CTCTACGGGAGGAGGAGTGGGAAATATTGACCAATGAGGAGAACTCTGATCCAGCAT 363
QY 388 GCGCGGTGTGAAGAGGCTTTTGGTTTAAAGCACTTAAGCAGTGAAGAGACTCT 447
DB 364 GCGCGGTGTGAAGAGGCTTTTGGTTTAAAGCACTTAAGTGAAGAGAGGAGCAT 423
QY 448 TCGGTTAATACCGGAGGAGCATGACATTAGCTGAGATTAAGCAACCGGCTAATCTGTGC 507
DB 424 TAACCTAATACGTTAGTGTTTTGAACGTTAAGCAGAAATTAAGCAACCGGCTAATCTGTGC 483

OY	508	CAGCAGCCCGGGTAATACAGAGGGGTCAAGCGTTATTCGGAATTAATCTAGGGCGTAAAGCGA	567
Db	484	CAGCAGCCCGGGTAATACAGAGGGGTCAAGCGTTATTCGGAATTAATCTAGGGCGTAAAGCGC	543
OY	568	GGGTAGTGGCTTGATMAGTCAAGATGTGAATATCCCGGGCTTAACTCGGAACTGCATCT	627
Db	544	GGGTAGTGGTTTGTTAAAGTTGGAATGTGAAGCCCGGGGCTCAACCTGGGAATCGCAATTC	603
OY	628	GAAACTCTTAAGGCTAAGTAAGTGAAGGGAAGTAAATTTCAAGGTGTACGGTGAATG	687
Db	604	AAAACTGACAACTAAGATAGTATGGTAAAGGGTGTGGAATTTCTGTGTACCGGTGAATG	663
OY	688	CGTAGAGATCTGAAGAAATACCAATGGCCGAAGGAGCTTCTCGCAATCATACTGACACTG	747
Db	664	CGTAAGTATAGGAAGGAACACACGTGGCGAAGGCGACACCTTGACTGATCTGACACTG	723
OY	748	AGGCTCGAAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTAAACG	807
Db	724	AGGTGCGAAAAGCGTGGGGAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTAAACG	783
OY	808	ATGTCTACTAAGTCGTTGGGTCCTTMAAGACCTTAAGTACGCACTTAAACGAATTAAGTA	867
Db	784	ATGTCAACTAAGCCGTGTGGAGCCTTAGCTCTTAGTGGCGCACTTAAACGATTAAAGTTGA	843
OY	868	CCGCTCGGGAGATACCGCCGCAAGGTTTAAACTCAATGAATTTGACGGGGGCCCGACAA	927
Db	844	CCGCTCGGGAGATACCGCCGCAAGGTTTAAACTCAATGAATTTGACGGGGGCCCGACAA	903
OY	928	GGCGTGAAGCATGTGGTTTAATTCGATGCACCGGAACCTTAACTGTGTTGACATA	987
Db	904	GGCGTGAAGCATGTGGTTTAATTCGGAAGCAACCGAAGAACCTTAACTGAGCTTGAATC	963
OY	988	CACAGATCTTGAAGATACAGAGATGTCCTTGGGAAATTGATACAGGTGTCGATGG	1044
Db	964	CAATGAATCTTCCAGAGATGAATGGTGCCTTGGGAACATTAGACAGGTGCTGCATGG	1020
OY	1048	CTGTGCTAGACTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGACGCCAACCTTTGT	1104
Db	1024	CTGTGCTAGACTGTCGTGAGATGTTGGGTTAAGTCCCGTAAACGACGCCAACCTTTGT	1080
OY	1108	CCTTAGTTTACAGACAC-TTCGGGTGGGAACCTTAAGATATCTGCCAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTTACAGACACGTAATGGTGGCACTCTTAAGAGACCTCCGGTGAACAAACCGGAG	1144
OY	1167	GAAAGCGGGGAGCAAGCTCAAGTCAATATGAGCCCTTACGACCAAGGCTACACACTGTCTAC	1222
Db	1144	GAAAGTGGGGAGTACACTCAAGTCAATATGAGCCCTTACGACCTGGGCTTACACACTGTCTAC	1200
OY	1227	AATGTAGGTACAGAGAGGAGCTTACACAGCGATGTATGGCAATCTCAAAAAGCCTATCG	1288
Db	1204	AATGTAGGTACAGAGAGGTTGCGCAACCCGGAAGTGAAGCTTAATCCCAAAAACGATCG	1266
OY	1287	TAGTCCAGATTGAAGTCTTGCAACTCGATCTCAATGAAGTAGGAATTCGTAGTAATTCGCGA	1344
Db	1264	TAGTCCGATTCGACAGTCTGCAACTCGATCTGGAAGTCGAATTCCTTAATTAATTCGGA	1322
OY	1347	TCAGAAATGCGCGGGTGAATACGTTCCCGGAGCCTTGTACACACCGCCGTACACCAATGGG	1404
Db	1324	TCAGAAATGTCGCGGGTGAATACGTTCCCGGGCCTTGTACACACCGCCGTACACCAATGGG	1380
OY	1407	AGTTGATTGACACAGAGTGTAGCTTAACTTAAATGAGGGGATACCAACGGTGTGGT	1466
Db	1384	AGTGGATTGACACAGAGTGTAGCTTAACTTCCGGAGAGACGGTTTAAACACGGTGTGGT	1444
OY	1466	CGATGATCTGGGGTGAAGTGTGAACAAGATGACCGTAGGGGAACCTGCGGTGTGATCAC	1523
Db	1444	TCATGATCTGGGGTGAAGTGTGAACAAGATGACCGTAGGGGAACCTGCGGTGTGATCAC	1501

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; Patent No. 6485951
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Polynhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 4051021
; CURRENT APPLICATION NUMBER: US/09/821,016
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jesseni PI61 ; BP-7376
; FEATURE:
; US-09-821-016-5

Query Match      72.0% ; Score 1098.6 ; DB 3 ; Length 1501 ;
Best Local Similarity 85.9% ; Pred. No. 0 ;
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6 ;

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RESULT 4
US-09-821-016-5
; Sequence 5, Application US/09821016

Db 784 ATGTCAATCAGCCGTTGGAGCCCTTGAAGTGGCCACCTAAACGATTAAAGTTGA 843
Qy 868 CCGCCCTGGGAGATAGCGCCGCAAGTTAAATCAATGAATTTGACGGGGCCCGACAA 927
Db 844 CCGCCCTGGGAGATAGCGCCGCAAGTTAAATCAATGAATTTGACGGGGCCCGACAA 903
Qy 928 GCGGTGAGATGTTGTTTAAATTCGATGCAACCGAAGAACCTTACCTGTTCTTGACATA 987
Db 904 GCGGTGAGATGTTGTTTAAATTCGATGCAACCGAAGAACCTTACCTGTTCTTGACATA 963
Qy 988 CACAGAACTTTAGAGATACGAGAGAGCTTGGGAAATTTGATACAGGTGCTGATGG 1047
Db 964 CAATGAATCTTCCAGAGATGATGGGTCTTGGGAACTTGAACAGAGGTGCTGATGG 1023
Qy 1048 CTGTCTCAGCTGTGTCTGATGATGTTGGGTTAAAGTCCCGCAACGAGCCAACTCTTGT 1107
Db 1024 CTGTCTCAGCTGTGTCTGATGATGTTGGGTTAAAGTCCCGTAAACGAGCCAACTCTTGT 1083
Qy 1108 CCTTAAGTTACAGACAC-TTGGGTGGGAATCTTAAGATCTGCAAGTGAACAACTGGAG 1166
Db 1084 CCTTAAGTTACAGACAGTAATGGTGGCACTTAAGGAGACTGCCGTGACAAACCGAG 1143
Qy 1167 GAAGGGGGGAGCAGACGTCAAGTCATCATGACCCTTACGACGAGGGCTACACAGCTGTAC 1226
Db 1144 GAAGGTGGGAGATACGTCAGTCATCATGAGCCCTTACGAGCTGGCTACACAGCTGTAC 1203
Qy 1227 AATGTAGTACAGAGGGCAGCTACACAGCATGTGTGAAATCTCAAAAAGCTTAATCG 1286
Db 1204 AATGTGTGTACAGAGGGTGTCCAAAGCGGAGGTGAGCTTAATCCACAAAACGATCG 1263
Qy 1287 TAGTCAGATTTGAGTCTGCACTGCACTCAATGAATAGGAATTCGTTAGTAATTCGGGA 1346
Db 1264 TAGTCGGGATCGAGTCTGCACTGCACTGCAATCGGAATCGTTAATTCGGGA 1323
Qy 1347 TCAGAAATGCGCGGTGAATACGTTCCGGGGCTTGTACACACCGCCGTCACACATGG 1406
Db 1324 TCAGAAATGCGCGGTGAATACGTTCCGGGGCTTGTACACACCGCCGTCACACATGG 1383
Qy 1407 AGTTGATTGACCAAGAGTGTAGCTTAA-CTTAAGTAGGGGATACACACGGTGTGT 1465
Db 1384 AGTGGGTGACCAAGAGTGTAGCTTAACTTTGGGAGAGACGGTTAACACGGTGTGT 1443
Qy 1466 CAGTACTGGGGTGAAGTCTTAACAGATGCGGTAGGGGAACCTGGGGCTGATCAC 1523
Db 1444 TCATGACTGGGGTGAAGTCTTAACAGATGCGGTAGGGGAACCTGGGGCTGATCAC 1501
RESULT 5
US-09-745-476-1
Sequence 1, Application US/09745476
Patent No. 6521429
GENERAL INFORMATION:
APPLICANT: CANON INC.
TITLE OF INVENTION: Preparation of poly-hydroxyalkanoic Acid
FILE REFERENCE: 4351008
CURRENT APPLICATION NUMBER: US/09/745,476
CURRENT FILING DATE: 2000-12-26
NUMBER OF SEQ ID NOS: 1
SOFTWARE: Microsoft Word
SEQ ID NO 1
LENGTH: 1501
TYPE: DNA
ORGANISM: Pseudomonas jessenii Pl61 ; FERM P-17445
US-09-745-476-1
Query Match 72.0% ; Score 1098.6 ; DB 3 ; Length 1501 ;
Best Local Similarity 85.9% ; Pred. No. 0 ;
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6 ;
Qy 30 GGGGGCAGGCTTAACATGCAAGTTCGAGCGAAACGATGATAGCTTATTAGGGGTC 89
Db 9 GGGGGCAGGCTTAACATGCAAGTTCGAGCG--ATGACGGAGCTTGTCTCTGAATTCA 66

Qy 90 GAGCNGCGGACGGGTGAGTAATTAATTAGAAATCTACTAGTAGTGGGGATAGCTCGGG 149
Db 67 G---CGGCGACGGGTGAGTAATTAATTAGAAATCTACTAGTAGTGGGGATAGCTCTC 123
Qy 150 GAAACTGAAATTAATACCGCATACGT-CTACGGGAGAAACGAGGGGNTATTAGACTTG 208
Db 124 GAAAGGAGCGTAAATACCGCATACGTCTACGGGAGAAACGAGGGGACTTGGGGCTTG 183
Qy 209 CGCTATTAGATAGCTTAAGTGGATTTAGTGTAGTGTGGGTAAAGGCTTACATGGGG 268
Db 184 CGCTATCAATGAGCTTAAAGTGGATTTAGTGTAGTGTGGGTAAAGGCTTACATGGGG 243
Qy 269 AGCATGTAGTGTGTGAGAGATGATCAGGACACCGGGGCTGAGACGGGCCCGGA 328
Db 244 AGCATGTAGTGTGTGAGAGATGATCAGGACACCGGGGCTGAGACGGGCCCGGA 303
Qy 329 CT-CTACGGGAGCAGCAGTGGGAAATTTGGAATTAAGGAGAACCTTATTCAGCCAT 387
Db 304 CTCTTACGGGAGCAGCAGTGGGAAATTTGGAATTAAGGAGAACCTTATTCAGCCAT 363
Qy 388 GCGCGTGTGTGAAGAGCGCTTTGGTTGTAAGCATTTTAAGCATGTAAGAACTCT 447
Db 364 GCGCGTGTGTGAAGAGCGCTTTGGTTGTAAGCATTTTAAGTGGAGGAAAGGCAAT 423
Qy 448 TCGGTTAATACCGGGGAGCATGACATTAAGCTGCAATTAAGCAACGGGCTTACTGTGC 507
Db 424 TAACTTAATACCGGTTAGTGTGTTGATGCTTACGACAAATTAAGCAACGGGCTTACTGTGC 483
Qy 508 CAGCAGCCGCGTAAATACAGAGGGTCAAGCGTTAATCGAATTAATCTGGGCTTAAGCGA 567
Db 484 CAGCAGCCGCGTAAATACAGAGGGTCAAGCGTTAATCGAATTAATCTGGGCTTAAGCGG 543
Qy 568 GCGTAGTGGCTTGAATAGTCAAGTGTAAATCCCGGGCTTAACTGGGAACTGCATCT 627
Db 544 GCGTAGTGGCTTGAATAGTGTAAATCCCGGGCTTAACTGGGAACTGCATCT 603
Qy 628 GAAACTGTAGGTTAGTGAAGTGAAGGGAATTAATTTGAGTGTAGCGGTGAATG 687
Db 604 AAAACTGACAAAGTGAAGTGAAGGGAATTAATTTGAGTGTAGCGGTGAATG 663
Qy 688 CTTAGAGATCTGAAGAAATACCGATGGCGAAGCAGCTTCTGGCATCATACTGACACTG 747
Db 664 CTTAGATATAGAAAGAAACACAGTGGCGAAGCGACCTTGGATCATGATCACTGACACTG 723
Qy 748 AGGCTGAAAACGCTGGGTAGCAAAACAGATTAGATACCTGTAGTTCACGCGTTAAACG 807
Db 724 AGGCTGAAAACGCTGGGTAGCAAAACAGATTAGATACCTGTAGTTCACGCGTTAAACG 783
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Db 784 ATGTCAACTAGCCGTTGGGAGCTTGAAGCTTTAGTGGCGCAGACTTAAACGATTAAGTGA 843
Qy 868 CCGCCTGGGAGATAGCGCCGCAAGTTAAATCAATGAATTTGACGGGGCCCGACAA 927
Db 844 CCGCCTGGGAGATAGCGCCGCAAGTTAAATCAATGAATTTGACGGGGCCCGACAA 903
Qy 928 GCGGTGAGATGTTGTTTAAATTCGATGCAACCGAAGAACCTTACCTGTTCTTGACATA 987
Db 904 GCGGTGAGATGTTGTTTAAATTCGATGCAACCGAAGAACCTTACCTGTTCTTGACATA 963
Qy 988 CACAGAACTTTAGAGATACGAGAGAGCTTGGGAAATTTGATACAGGTGCTGATGG 1047
Db 964 CAATGAATCTTCCAGAGATGATGGGTCTTGGGAACTTGAACAGAGGTGCTGATGG 1023
Qy 1048 CTGTCTCAGCTGTGTCTGATGATGTTGGGTTAAAGTCCCGCAACGAGCCAACTCTTGT 1107
Db 1024 CTGTCTCAGCTGTGTCTGATGATGTTGGGTTAAAGTCCCGTAAACGAGCCAACTCTTGT 1083
Qy 1108 CCTTAAGTTACAGACAC-TTGGGTGGGAATCTTAAGATCTGCAAGTGAACAACTGGAG 1166
Db 1084 CCTTAAGTTACAGACAGTAATGGTGGCACTTAAGGAGACTGCCGTGACAAACCGAG 1143

QY 1167 GAAGCGGGACGACGTCAAGTCATGCGCCCTTAACAACAGGGCTACACAGTGTAC 1226
DB 1144 GAAGGTGGGATGACGTCAAGTCATGCGCCCTTAACGGCTGGGTACACAGTGTAC 1203
QY 1227 AATGTAGGTACAGAGGCGACGTACACAGCGATGTATGCGAATCTCAAAAAAGCTTATG 1286
DB 1204 AATGTGGGTACAGAGGCTTGGCCAAAGCCGAGGTGAGCTTAATCCACAAAACCATG 1263
QY 1287 TAGTCAGATTGGAGTCTGCAACTGCACTCAGTAAGTAAGTAATCGCTATATCGCGGA 1346
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QY 1347 TCAGAAATCCGCGGTGAATACGTTCCGGGCTTGTACAACCGCCGTCAACCAATGGG 1406
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QY 1407 AGTTGATTGCAACCAAGAGTGTATGCTTA-CTTAATGAGGGGATACCAAGGTGTGT 1465
DB 1384 AGTGGGTTCACACCAAGAGTGTATGCTTAACCTTCGGGAGGACGTTTACACAGGTGTAT 1443
QY 1466 CGATGCTGGGCTGAAGTGTATCAAGGTAGCCGTAGGGGAACTGCGGTGGATGAC 1523
DB 1444 TCATGACTGGGTGAAGTGTATCAAGGTAGCCGTAGGGGAACTGCGGTGGATGAC 1501

RESULT 6
US-09-748-205-1
; Sequence 1, Application US/09748205
; Patent No. 6586562
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxylkanolate its manufacturing method, and microorganism
; FILE REFERENCE: 4351009
; CURRENT APPLICATION NUMBER: US/09/748,205
; CURRENT FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GCGCGCAGGCTTAACATGCAAGTGAAGCGGAAAGATGATAGCTTCTATTAGGCGTC 89
DB 9 GCGCGCAGGCTTAACATGCAAGTGAAGCGG--ATGACGGGAGCTTGCCTCGAATTCA 66
QY 90 GAGCNCGCGGAGCGGTGAATTAATCTTAAGAACTCAAGTAATGAGGAGTATGCTCGG 149
DB 67 G---CGGCGAGCGGTGAATTAATCTTAAGAACTCTCTGTATGTGGGAGCAACGCTTC 123
QY 150 GAAACTCGAATTATACCCCATACGT-CTACGGGAGAAAAGAGGGGANTCATTAAGACTTG 208
DB 124 GAAAGGAGCGCTTAATACCCCATACGTCTTAACGGGAGAAAAGAGGAGCACTTCGGGCTTG 183
QY 209 CGCTATTAGATGAGCTTAAGTGGATTAAGCTAGATGTGGGTAAAGGCGCTCAATGAGG 268
DB 184 CGCTATCAATGAGCTTAAGTGGATTAAGCTAGATGTGGGTAAAGGCTCAACGAGG 243
QY 269 AGCATGTGAAGCGGTCTAGAGGATGATACGCAACCGGAGCTAGACACGCGCCGGA 328
DB 244 AGCATCGTGAAGCGGTCTAGAGGATGATACGCAACGAGCTAGACACGCGCTCA 303
QY 329 CT-CTACGGGAGCAGAGTGGGAAATATTGACAATGAGGAGAACTCTGATCCAGCAT 387
DB 304 CTCCTACGGGAGCAGAGTGGGAAATATTGACAATGAGGAGAACTCTGATCCAGCAT 363
QY 388 GCGCGCTGTGTGAAGAGCGCTTTGTGTAAAGCACTTTAAGCAGTGAAGAGACTCT 447
DB 1444 TCATGACTGGGTGAAGTGTATCAAGGTAGCCGTAGGGGAACTGCGGTGGATGAC 1501

DB 364 GCGCGCTGTGTGAAGAGCTCTTCGATTTGTAAAGCACTTTAAGTTGGAGGAGCGCAT 423
QY 448 TCGGTTAATACCCGGGAGCATGACATTAGTGCAGAAATTAAGCACCGGTTACTGTG 507
DB 424 TTAACCTAATACGTTAGTGTGTTGTTGACGTTACGACAGAAATTAAGCACCGGTTACTGTG 483
QY 508 CAGCAGCCGCGTAAATACAGAGGCTGCAAGCGTTAATCGAATTAATCGGGCTAAAGCGA 567
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QY 628 GAAACTGTAGGCTAGAGTGTAGAGGAGGAAATTAAGTAACTTCAAGGTGTAGCGGTAAATG 687
DB 604 AAATCTGACAACTGAGATGTGTAGAGGAGTGTGAATTTCTGTGTAGCGGTAAATG 663
QY 688 CGTAGAGATCTGAAAGAAATACCGATGCGAAAGGACGTTCTGGCATCATTAAGTACATG 747
DB 664 CGTAAATTAAGGAAAGAAACACAGTGGCGAAGGCAACCACTGATTAAGTACATG 723
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DB 724 AGGTGCAAAAGCTGTGGGCAAAACAGATTAATCCTGTGTATCCAGCGCTTAAG 783
QY 808 ATGTCTACTAGTGTGTGGGTCCCTTGAGGACTTAAGTACGAGCTTAAGCAATTAAGTATA 867
DB 784 ATGTCTACTAGTGTGTGGGTCCCTTGAGGACTTAAGTACGAGCTTAAGCAATTAAGTATA 843
QY 868 CCGCTGGGAGTACGCGCGCAAGGTTAAACTCAATTAATGAATGAACGCGGCGCCGCA 927
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DB 1024 CTGTGTCAGCTCGTGTGTGTGATGATGATGATGATGATGATGATGATGATGATGATG 1083
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DB 1084 CTTTGTATCCAGCACGTAATGTGTGGGCACTTAAGGAGATGCGGTGTGATGATGATG 1143
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DB 1144 GAAAGTGGGATGAGTCAAGTCAATGAGCCCTTAACGAGCTGTGAGTACACAGTGTAC 1203
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QY 1407 AGTTGATTGCAACCAAGAGTGTATGCTTA-CTTAATGAGGGGATACCAAGGTGTGT 1465
DB 1384 AGTGGGTTCACACCAAGAGTGTATGCTTAACCTTCGGGAGGACGTTTACACAGGTGTAT 1443
QY 1466 CGATGCTGGGCTGAAGTGTATCAAGGTAGCCGTAGGGGAACTGCGGTGGATGAC 1523
DB 1444 TCATGACTGGGTGAAGTGTATCAAGGTAGCCGTAGGGGAACTGCGGTGGATGAC 1501

RESULT 7
US-09-951-720-1
Sequence 1, Application US/09951720
Patent No. 6635782
GENERAL INFORMATION:
APPLICANT: Canon Kabushiki Kaisha
TITLE OF INVENTION: Polyhydroxylkanoate and Manufacturing Method Thereof
FILE REFERENCE: 4477001
CURRENT APPLICATION NUMBER: US/09/951,720
PRIORITY FILING DATE: 2000-09-14
PRIORITY APPLICATION NUMBER: JP 279900/2000
JP 378827/2000
JP 165238/2001
JP 165509/2001
JP 275063/2001
PRIORITY FILING DATE: 2000-09-14
2000-12-13
2001-05-31
2001-05-31
2001-09-11
NUMBER OF SEQ ID NOS: 1
SEQ ID NO 1
LENGTH: 1501
TYPE: DNA
ORGANISM: Pseudomonas jessenii P161 strain.
US-09-951-720-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;
30 GGGCGACAGCTTAAACATGCAAGTCGAGCGAAACAGATGATGCTTAAAGGCGTC 89
9 GGGCGAGGCTTAAACATGCAAGTCGAGCG--ATAAGCGAGCTTGGCTTGAATTC 66
90 GAGCGCGAGCGGAGTGAATTAAGTAAGTCTTAAAGTCTTAAAGGCTTAAAGGCT 149
67 G---CGCGAGCGGAGTGAATTAAGTGAATCTGCTGGTGAAGGAGCAACGCTCTC 123
150 GAAAGCTGAATTAAGTGAATTAAGTGAATCTTAAAGTCTTAAAGGCTTAAAGGCT 208
124 GAAAGGAGCGCTTAAATACCGATACGCTTAAAGGAGAAAGAGGAGGAGCTTGGGCT 183
209 CGCTTAAAGTGAAGCTTAAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 268
184 CGCTTAAAGTGAAGCTTAAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 243
269 ACGATCTGTAAGCTGTAAGGAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 328
244 ACGATCTGTAAGCTGTAAGGAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 303
329 CT-CTAAGGAGGAGGAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 387
304 CTCTTAAAGGAGGAGGAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 363
388 GCGCGTGTGTAAGGAGGCTTAAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 447
364 GCGCGTGTGTAAGGAGGCTTAAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 423
448 TCGGTAAATACCGGAGGAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 507
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484 CAGAGCGCGGAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 543
568 GCGTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 627
544 GCGTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGGCT 603

628 GAAAGCTTAAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 687
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664 CTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 723
748 AGGCTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 807
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868 CCGCTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 927
844 CCGCTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 903
928 GCGTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 987
904 GCGTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 963
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1024 CTGCTGAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 1083
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1466 CAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 1523
1444 TCAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATTAAGTGAATGCTTAAAGGCTTAAAGG 1501

RESULT 8
US-10-411-319-1
Sequence 1, Application US/10411319
Patent No. 6649381
GENERAL INFORMATION:
APPLICANT: Canon Inc.
TITLE OF INVENTION: Polyhydroxylkanoate, Method For Production Thereof And Microorganism
FILE REFERENCE: 03500.015001.1
CURRENT APPLICATION NUMBER: US/10/411,319
PRIORITY FILING DATE: 2003-04-11
PRIORITY APPLICATION NUMBER: US 09/748,205

Db	67	G---	CGCGGAGCGGGTAGTATGCTTGAAGAATCTCGCTGGTAGTGGGGACAAAGTCTC	123
Qy	150	GAAATCGAAATTAATACCGCATACGT-	CTACGGGAGAAAGCAGGGGNTCAATTAGACCTTG	208
Db	124	GAAAGGACCGCTAATACCGCATACGTCTC	TACGGGAGAAAGCAGGGGACCTTTCGGGCTTG	183
Qy	209	CGCTATTAGATGAGCCTTAAGTCGGATT	TAGCTAAGATGGTGGGCTTAAGGCTTACATGGCG	268
Db	184	CGCTATCAGATGAGCCTTAGTCCGATTT	TAGCTAAGATGGTGGGCTTACATGGCG	243
Qy	269	ACGATCTGTACTGGTCTGAGAGATGAT	TCAGGCCAACCGGAGACTGAGACACGGCCCGGA	328
Db	244	ACGATCCCTTAATGATGATCTGAGAGAT	TCAGTCACTGAGACCTGAGACCGGTCCAGA	303
Qy	329	CT-CTACGGGAGGACGACGATGGGGAA	TTTGGACAAATGAGGGGAACCTTGATCCAGCAT	387
Db	304	CTCTACGGGAGGACGACGATGGGGAA	TTTGGACAAATGAGGGGAAGCTGATCCAGCAT	363
Qy	388	GCCGCGTGTGAGAGAGGACCTTTTG	TGTGAAGACCTTTAAGCATGAAGAAACTCT	447
Db	364	GCCGCGTGTGAGAGAGGATCTTCG	ATGTTGAAGACCTTTAAGTGGGAGGAAGGCAAT	423
Qy	448	TCGGTTAATACCCGGGGACGATGAT	ATTAAGTCGAGAAATAGCACCCGCTTAATCTGTGC	507
Db	424	TAACTTAATACCTTAGTGTGATTT	TGACGTTACCGACGAATTAAGCACCCGCTTAATCTGTGC	483
Qy	508	CAGCAGCCGCGGTAAATACAGAGGG	TGCAGACGTTAATCTGGCGTAAACGGA	567
Db	484	CAGCAGCCGCGGTAAATACAGAGGG	TGCAGACGTTAATCTGGCGTAAACGCG	543
Qy	568	GCGTAGTGCTTGAATTAAGTCAGAT	GTGAAATCCCGGGCTTAACTTGGGAACTGCATCT	627
Db	544	GCGTAGTGCTTGAATTTAAGTTGA	GTGAAAGCCCGGGCTCAACTTGGGAACTGCATTC	603
Qy	628	GAAATCTGTTAGCTAGTAGTAGTAG	GAGGAAGTGAATTTCAAGTGAAGGGTGAATG	687
Db	604	AAAACTTGACMACCTTAGTAGTAGTAG	AGGGTGGTGAATTTCTGTGAGCGGTGAATG	663
Qy	688	CGTAGAGATCTTAAGGAATTAACCG	ATGCGGAGGACGCTTCTTGGCATCATCTGACACTG	747
Db	664	CGTAATATAGGAAGAGAACCAAC	AGTGGGAGGACCAACTGGACTGATCTGACTG	723
Qy	748	AGGCTCGAAAGCGGTAGCAAA	CAGGATTAAGATACCTGGTAGTCCAGCCGTTAAACG	807
Db	724	AGGTGCGAAAGCGGTGGGGAGCA	AAACAGATTGATACCTGGTAGTCCAGCCGTTAAACG	783
Qy	808	ATGTCTAATAGTCTGTTGGGTCC	CTTTGAGAGACTTAAGTGAACGACGCTAACGCAATAAGTGA	867
Db	784	ATGTCAACTAGCGCTGTGGAGC	CTTGAAGTCTTAATGTGGCGCAGCTTAAGGCAATTAAGTGA	843
Qy	868	CGGCGTGGGGAGTATGAGCGCG	CAAGGTTAAAACTCAAAATGAATTGAACGGGGGCGCGCAAA	927
Db	844	CGGCGTGGGGAGTATGAGCGCG	CAAGGTTAAAACTCAAAATGAATTGAACGGGGGCGCGCAAA	903
Qy	928	GCGGTGAGACATGTGGTTTAAT	TTCATGTGACGACGCAAGAACCTTACTGTCTTGACATA	987
Db	904	GCGGTGAGACATGTGGTTTAAT	TTCGAAAGGAACGCAAGAACCTTACTGAGGCTTGACATC	963
Qy	988	CACAGAAATTTGTAGAGATCAG	AGAGTGCCTTCCGGGAATTTGTGATACAGGTGCTGCATG	1047
Db	964	CATGAACCTTTCACAGAGATGAT	TGGGTGCTTCCGGGAACATTTGAACAGGTGCTGCATG	1023
Qy	1048	CTGTGGTACGCTCGTGTGAGATG	TTGGGGTTAATGATCCCGCAAGACGGGCAACCTTGAT	1107
Db	1024	CTGTGGTACGCTCGTGTGAGATG	TTGGGGTTAATGATCCCGTAAACGAGCGCAACCTTGAT	1083
Qy	1108	CCTTAGTTACACAGCAC-TT	CGGGTGGGAACCTTAAGATACCTGACAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTACACAGCACGTA	ATGATGTGGGCACTCTTAAGAGACTGCCGGTGAACAAACCGAG	1143
Qy	1167	GAAAGCGGGAGCGAGCTCA	AGTCACTATGAGCCCTTAAACAGAGGGCTTACACGCTGCTAC	1228
Db	1144	GAAAGCGGGAGCGAGCTCA	AGTCACTATGAGCCCTTAAACGAGGGCTTACACGCTGCTAC	1203

QY	1227	AATGTAGGTACAGAGGGACAGCTACACAGCATGTGATTCGGAATCTTCAAAAAGCTTATCG	1286
Db	1204	AATGTGTGGTACAGAGGGTTGTCCAAAGCCGAGGTGAGGTAAATCCCAAAAACCGATTCG	1263
QY	1287	TATGCCAGATTGGAGTGTGCAACTGCATCTCATGTAAGTAATCCGTAGTAATTCGCGGA	1346
Db	1264	TATGTCGGATTCGCAGTGTGCAACTGCATCTCATGTAATTCGGAATTCGTATTAATTCGGAA	1323
QY	1347	TCAGATATCCGCGGTGAATACGTTCCCGGCGCTTTGTACACACCGGCCGTACACATATGGG	1406
Db	1324	TCAAATATGTCCGCGGTGAATACGTTCCCGGCGCTTTGTACACACCGGCCGTACACATATGGG	1383
QY	1407	AGTTGATTGCACCGAAGTGTATGACCTTAACTTATGAGAGGCGCATCACCACGGTGTGT	1465
Db	1384	AGTGGGTTGCACCGAAGTGTATGATTTAACTTTCCGAGAGGACGGTTACCCACGGTGTGAT	1443
QY	1466	CGATGACTGGGGGTGAAGTCGTACACAGATAGCCGTAGGGGAACCTGGGCGCTGATATCAC	1523
Db	1444	TCATGACTCGGGGTGAAGTCGTACACAGATAGCCGTAGGGGAACCTGGGCGCTGATATCAC	1501

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RESULT 10
US-10-266-787-5
; Sequence 5, Application US/10266787
; Patent No. 6808910
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takehiko
; APPLICANT: Suda, Sakae
; APPLICANT: Homma, Tetsuomi
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.3
; CURRENT APPLICATION NUMBER: US/10/266,787
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
; FEATURE: cDNA to 16S rRNA
US-10-266-787-5

Query Match          72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1887; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GGGCGAGGCTTAACATGACGAGCGGAGAAAGATGATGCTTATTAGGCGTC 89
DB 9 GGGCGAGGCTTAACATGACGAGCGGAGAAAGATGATGCTTATTAGGCGTC 66
QY 90 GAGCGGCCGAGCGGTGAGTAATCTTAGGAATCTAAGTAGTGGGGGATAGCTCGGG 149
DB 67 G---GGGCGAGCGGGTGAATGTAATCGCTAGGAATCTGCTGTAGTGGGGGACAACGCTC 123
QY 150 GAAACTCGAATTAATCCGCATTCGT-CTACGGGAGAAACAGGGGATCATTAACCTTG 208
DB 124 GAAAGGAGCGCTAATCCGCATTCGTCTACGGGAGAAACAGGGGACCTTCGGGCTTG 183
QY 209 CGCTATTAGATGAGCCTAAGTCGATTAGCTAGATGATGGTGAAGGCTTACCATGCGG 268
DB 184 CGCTATCAATGAGCCTAAGTCGATTAGCTAGATGATGGTGAAGGCTTACCATGCGG 243
QY 269 ACGATCTGATGCTGATCTGAGAGAGATGATCAGCCAGCACCGGGACTGAGACCGGCCGGA 328
DB 244 ACGATCGTGAATCGTCTGAGAGAGATGATCAGCTCAGCACTGGAACCTGAGACCGGTCGCA 303
QY 329 CT-CTACGGGAGGACGATGCGGGGAATTTGACATATGAGGGAACCTGATTCAGCCAT 387

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Db 304 CTCCTACGGGAGCAGCAGTGGGAAATTGGAACAATGGGCGAAGACCTGATCCAGCAT 363
QY 388 GCCGCGTGTGTGAAGAGCCTTTGTGTGAAGACCTTAAAGAGTGAAGAGACTCT 447
Db 364 GCCGCGTGTGTGAAGAGCCTTTGTGTGAAGACCTTAAAGAGTGAAGAGACTCT 423
QY 448 TCGGTTAATACCGGGGAGCATGATGACATTAGCTGCAGAAATAGCAGCCGGCTAACTCTGTC 507
Db 424 TAACTTAATACGTTAGTGTGTTGACGTTACCGACAAATATAGACCGGGCTAACTCTGTC 483
QY 508 CAGCAGCCCGGGTAAATACAGAGGGTGCAGACGTTAATCGGAATTAATCTGGGCGTAAAGCGA 567
Db 484 CAGCAGCCCGGGTAAATACAGAGGGTGCAGACGTTAATCGGAATTAATCTGGGCGTAAAGCGC 543
QY 568 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGGCTTAACCTGGGGAATCTGCATCT 627
Db 544 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGGCTTAACCTGGGGAATCTGCATCT 603
QY 628 GAAACTGTTAGGCTAGATAGTGAAGGGAAGTAAATTTCAAGTGTAGCGGTGAATG 687
Db 604 AAAACTGACAGCTAGATAGTGAAGGGTGTGAATTTCTGTGTAGCGGTGAATG 663
QY 688 CGTAGAGTCTGAAGAAATCCGATGCGGAGGCGAGCTTCTGGCATCAATAGACATG 747
Db 664 CGTAGATATAGGAAGAACACAGTGGCGAAGCGACCACTTGACTGATACGACATG 723
QY 748 AGGCTGAAAGCGTGGGTGCAACAGATTAGTACCTCGTAGTCCACCGCGTAAAG 807
Db 724 AGGTGCAAGCGTGGGAGCAACAGATTAGTACCTCGTAGTCCACCGCGTAAAG 783
QY 808 ATGTCTACTAGTGTGTGCTCCCTTGAAGACCTTAGTGAAGCACTAACCAATATAGTA 867
Db 784 ATGTCAACTAGCGCTTGGAGCTTGAAGCTTAGTGAAGCACTAACCAATATAGTA 843
QY 868 CCGCCTGGGGAATAGCGCCGCAAGGTTAAATCTCAATATATGAGGGGGCCCGCAAA 927
Db 844 CCGCCTGGGGAATAGCGCCGCAAGGTTAAATCTCAATATATGAGGGGGCCCGCAAA 903
QY 928 GCGGTGAGCATGTGTTTAATTCGATGCAAGCGGAAGAACTTACTGTGTGACATA 987
Db 904 GCGGTGAGCATGTGTTTAATTCGATGCAAGCGGAAGAACTTACTGTGTGACATA 963
QY 988 CACAGAACTGTGTAGATACAGAGATGCTTGGGAAATTTGTGATACAGGTGTGATG 1047
Db 964 CAATGAATCTTCCAGAGATGAGATGGGTGCTTGGGAACTTGAACAGAGTGTGATG 1023
QY 1048 CTGTCTCAGCTGTGTCTGTAGATGTTGGGTTAAGTCCCGCAAGCGGCAACCTTGT 1107
Db 1024 CTGTCTCAGCTGTGTCTGTAGATGTTGGGTTAAGTCCCGTAAAGCGGCAACCTTGT 1083
QY 1108 CCTTACTTACAGCAC-TTCCGGGTGGGAACTTAAGGATATCTGCCAGTGAACAACTGGAG 1166
Db 1084 CCTTACTTACAGCACGTAATGATGGGCACTTAAGAGACTGCGGTGAACAAACCGGAG 1143
QY 1167 GAAGCGGGGACGACGTCATGATGATGCTTCAAGCAAGAGGCTAGACAGTGTCTAC 1226
Db 1144 GAAGGTGGGGAATGACGTCATGATGATGCTTCAAGCAAGAGGCTAGACAGTGTCTAC 1203
QY 1227 AATGTAGTACAGAGGCACTACACAGGATGTGATGGAATCTTCAAAAACCTATG 1286
Db 1204 AATGTGTGATACAGAGGCTTGCACAGCGGAGGTGAGCTAATCCCAAAAACCTATG 1263
QY 1287 TGTGTGAGATGTGAGCTGCAACTGACCTCAAGATGAGGAATGCTGTAGTAATGCGGA 1346
Db 1264 TGTGTGAGATGTGAGCTGCAACTGACCTGAGGAATGAGGAATGCTGTAGTAATGCGGA 1323
QY 1347 TCAGAAATGCGCGGTGAATATGTTCCCGGCTTGTACACCGCCGCTACACCATG 1406
Db 1324 TCAGAAATGCGCGGTGAATATGTTCCCGGCTTGTACACCGCCGCTACACCATG 1383
QY 1407 AGTTGATTGACACGAAGTGTGTTAGCTTAA-CTTAAGTGAAGGCGATACCAAGTGTGT 1465
Db 1384 AGTGTGTGACACGAAGTGTGTTAGCTTAACTTCCGGGAGGAGCGGTAAACAGGTGTGT 1443
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QY 1466 CGATGACTGGGGTGAAGTGTGTAACAAGGTAGCGGTAGGGGAACCTTGGGCTGATCAC 1523
Db 1444 TCATGACTGGGGTGAAGTGTGTAACAAGGTAGCGGTAGGGGAACCTTGGGCTGATCAC 1501

RESULT 11
US-09-791-610-1
; Sequence 1, Application US/09791610
; Patent No. 6861550
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polymyxin B containing 3-hydroxybenzoylalkanoic acid as
; FILE REFERENCE: 4396021
; CURRENT APPLICATION NUMBER: US/09/791,610
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jesseni 161 strain.
US-09-791-610-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GCGGCGAGGCTTAACATGCAATGCAAGTGAAGCGGAACGATGATGCTTGTATTAAGCGTC 89
Db 9 GCGGCGAGGCTTAACATGCAATGCAAGTGAAGCGG--ATGACGGAGCGCTTGTCTGTAATTA 66
QY 90 GAGCGCGGAGGAGTGAATTAATGAAATCTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 149
Db 67 G--CGGAGAGGAGTGAATGCTTAAGATTCGCTGTAAGTGAAGTGAAGTGAAGTGAAGTGA 123
QY 150 GAACTGCAATTAATACCGCATACGT-CTACGGGGAAGAACGAGGAGTCAATTAAGCCTTG 208
Db 124 GAAAGGAGCGCTAATACCGCATACGTCTTACGGGGAAGAACGAGGAGCCTTGGGCTTG 183
QY 209 GCGTATTGAGTGAAGCTTAAGTGAATGATGATGATGATGATGATGATGATGATGATGATG 268
Db 184 GCGTATTGAGTGAAGCTTAAGTGAATGATGATGATGATGATGATGATGATGATGATGATG 243
QY 269 AGGATCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 328
Db 244 AGGATCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 303
QY 329 CT-CTACGGGAGGAGCAGTGGGGAATTAATGACATGAGGGAACCTTATCCAGCAT 387
Db 304 CTCCTACGGGAGGAGCAGTGGGGAATTAATGACATGAGGGAACCTTATCCAGCAT 363
QY 388 GCGGCTGTGTGAAGAGGCTTTGTTGTGAAGCACTTAAAGCAAGTGAAGAGTGAAGTGAAG 447
Db 364 GCGGCTGTGTGAAGAGGCTTTGTTGTGAAGCACTTAAAGCAAGTGAAGAGTGAAGTGAAG 423
QY 448 TCGGTTAATACCGGGGAGCATGATGACATTAGCTGCAGAAATAGCAGCCGGCTAACTCTGTC 507
Db 424 TAACTTAATACGTTAGTGTGTTGACGTTACCGACAAATATAGACCGGGCTAACTCTGTC 483
QY 508 CAGCAGCCCGGGTAAATACAGAGGGTGCAGACGTTAATCGGAATTAATCTGGGCGTAAAGCGA 567
Db 484 CAGCAGCCCGGGTAAATACAGAGGGTGCAGACGTTAATCGGAATTAATCTGGGCGTAAAGCGC 543
QY 568 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGGCTTAACCTGGGGAATCTGCATCT 627
Db 544 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGGCTTAACCTGGGGAATCTGCATCT 603
QY 628 GAAACTGTTAGGCTAGATGATGAGGGAAGTGAATTTCAAGTGTAGCGGTGAATG 687
Db 604 AAAACTGCAACACTGATGATGATGAGGAGTGAATTTCTGTGTAGCGGTGAATG 663
QY 688 CGTAGAGATCTGAAGGAATACGATGCGAAGGCGAGCTTCTGGCATCAATAGACATG 747
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DB      664  CGTAGATATAGGAAGAACACCAAGTGGCCAGAGCGACCACTGATCTGATCACTG 723
      748  AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCACGCCGTAACG 807
      724  AGGTGGAAAGCGTGGGAGCAAAACAGATTAGATACCTGTAGTCCACGCCGTAACG 783
      808  ATGTCTACTAGTGTGGTCCCTTGAAGACTTATAGTACGCGACTTAACGATTAAGTAGA 867
      784  ATGTCAACTAGCGGTGGAGCGCTTGAAGCTTATAGTGGCGCAGCTAACGATTAAGTTGA 843
      868  CCGCCCTGGGAGATACGGCCGCAAGGTTAAAACCTCAATGATTAAGAGGGGGCCCGACAA 927
      844  CCGCCTGGGAGATACGGCCGCAAGGTTAAAACCTCAATGATTAAGAGGGGGCCCGACAA 903
      928  GCGGTGAGAGCATGTGGTTTAAATTCATGACAAACGCGAAGAACCTTACCTGTCTTGA 987
      904  GCGGTGAGAGCATGTGGTTTAAATTCATGACAAACGCGAAGAACCTTACCGAGCTTGA 963
      988  CACAGAACTCTTGAAGATACGAGATGCTCTTGGGAAATTTGATACAGGTGCTGCATGG 1047
      964  CAATGAACCTTCCAGAGATGATGAGGTGCTTGGGAAACATGAGACAGGTGCTGCATGG 1023
      1048  CTGTCTGACGCTGTGTGCGATGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCTGTG 1107
      1024  CTGTCTGACGCTGTGTGCGATGATGTTGGGTTAAGTCCCGTAAACGAGCGCAACCTGT 1083
      1108  CCTTAGTATACACAGCAC-TTCGGGTGGGAACTCTTAAGGATATCTCCAGTGAACAACTGAG 1166
      1084  CCTTAGTATACACAGCACGATATATGTTGGCACTCTTAAGGATATCTCCAGTGAACAACTGAG 1143
      1167  GAAAGCGGGGACACGTCATCATCATGAGCCCTTACGACCAAGGCTACACAGCTGTAC 1226
      1144  GAAAGTGGGATACGTCATCATCATGAGCCCTTACGAGCTGGGCTGACACAGCTGTAC 1203
      1227  AATGTAGATGACAGAGGGGACGTCACAGGATGATGCGAATCTCAAAAAGCCTATCG 1286
      1204  AATGTAGATGACAGAGGGGATGCGAAGCCGAGGTGAGCTTAATCCCAAAAACGATCG 1263
      1287  TACTCAGATTTGAGATCTGCAACTGCACTCATGAATAGGAAATCGTAAATTCGCGGA 1346
      1264  TACTCAGATTTGAGATCTGCAACTGCACTCATGAATAGGAAATCGTAAATTCGCGGA 1323
      1347  TCAGAAATGTCGCGGTGAATAGTTCGCGGCTTTGACACACCGCCGTCACACATGGG 1406
      1324  TCAGAAATGTCGCGGTGAATAGTTCGCGGCTTTGACACACCGCCGTCACACATGGG 1383
      1407  AGTTGATTTGACACAGAGTGTAGCTTA-CTTAGAGAGGCGATCAACACGCTGTGCT 1465
      1384  AGTGGTTTGCACAGAGTGTAGCTTA-CTTAGAGAGGCGATCAACACGCTGTGCT 1443
      1466  CGATGACTGGGATGAGTCTGAACAAAGTACCGTGAAGGAACTCTGCGGCTGTATAC 1523
      1444  TCATGACTGGGATGAGTCTGAACAAAGTACCGTGAAGGAACTCTGCGGCTGTATAC 1501

RESULT 12
US-10-252-518-5
; Sequence 5, Application US/10252518
; Patent No. 6875596
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tadamu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500, 015225, 2
; CURRENT APPLICATION NUMBER: US/10/252, 518
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: JP 2000-095004
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
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; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
; FEATURE: CDNA to 16S rRNA
US-10-252-518-5

Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

      30  GCGGAGAGCTTAACATGATGAGTGAAGGAAAGATGATAGCTTGTATTAAGGCTGC 89
      9  GCGGAGAGCTTAACATGATGAGTGAAGGAAAGATGATAGCTTGTATTAAGGCTGC 66
      90  GAGCAGCCGAGAGGAGTGAATTAATTAAGAAATTAATTAAGTGGGAGATAGCTGCG 149
      67  G---GCGGAGAGGAGTGAATTAATTAAGAAATTAATTAAGTGGGAGATAGCTGCG 123
      150  GAAATCTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 208
      124  GAAAGGAGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 183
      209  CGTATTAGATGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 268
      184  CGCTATCAATGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 243
      269  AGCATCTGATGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 328
      244  AGCATCTGATGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 303
      329  CT-CTAGGAGAGGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 387
      304  CTCTCTAGGAGAGGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 363
      388  GCGGAGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 447
      364  GCGGAGAGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 423
      448  TCGGTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 507
      424  TACCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 483
      508  CAGCAGCCGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 567
      484  CAGCAGCCGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 543
      568  GCGTATGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 627
      544  GCGTATGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 603
      628  GAAATCTGATGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 687
      604  ABAATCTGATGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 663
      688  CGTAGATCTGAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 747
      664  CGTAGATCTGAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 723
      748  AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCACGCCGTAACG 807
      724  AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCACGCCGTAACG 783
      808  ATGTCTACTAGTGTGGTCCCTTGAAGACTTATAGTACGCGACTTAACGATTAAGTAGA 867
      784  ATGTCAACTAGCGGTGGAGCGCTTGAAGCTTATAGTGGCGCAGCTAACGATTAAGTTGA 843
      868  CCGCCTGGGAGATACGGCCGCAAGGTTAAAACCTCAATGATTAAGAGGGGGCCCGACAA 927
      844  CCGCCTGGGAGATACGGCCGCAAGGTTAAAACCTCAATGATTAAGAGGGGGCCCGACAA 903
      928  GCGGTGAGAGCATGTGGTTTAAATTCATGACAAACGCGAAGAACCTTACCTGTCTTGA 987
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DB 904 GCGGTGACATGCTGTTAAATTCGAAGCAACCGAAGAACCTTACAGAGCCCTTGACATC 963
988 CACAGAACTCTTAGAGATACAGAGATGCTTGGGAAATTGGATCAGGTGCTGATG 1047
DB 964 CAAATGAACTTCCAGAGATGATGGGTGCTTGGGAACTTGAACAGAGTGTGATG 1023
1048 CTGTCTCAGCTCTGTCTGTGATGATGTTGGTTAACTCCCGCAACAGAGCAACCTTGT 1107
DB 1024 CTGTCTCAGCTCTGTCTGTGATGATGTTGGTTAACTCCCGTAACAGAGCAACCTTGT 1083
QY 1108 CCTTAATTACACAGAC- TTCCGGGTGGAACTCTAAGATATCTCCAGTGAACAACTGAG 1166
DB 1084 CCTTAATTACACAGACGTAATGTTGGGCACTCTTAAGAGAACTGCTCCGTGACAAACCGAG 1143
QY 1167 GAAGGCGGGGACGACGTCGAAGTATGATGAGCCCTTACGACGAGGGGTACACACGTGCTAC 1226
DB 1144 GAAGGTGGGAAATGACGTCGAAGTATGATGAGCCCTTACGAGCTGGGCTACACAGTGTAC 1203
QY 1227 AATGTAGGTACAGAGGAGCTACACAGGATGTGATGCAATCTCAAAAAGCCTATG 1286
DB 1204 AATGTAGGTACAGAGGAGGTTGCAAGCCGAGAGTGGAGTATCCCAAAAACGATG 1263
QY 1287 TAGTCCAGATTGAGTGTGCAATCTGATCTCATGAAGTGAAGAACTGCTAGTAACTGCGGA 1346
DB 1264 TAGTCCGAGTCCGAGTCTGCACTGCACTGCGAAGTGGAACTGCTAGTAACTGCGGA 1323
QY 1347 TCAGATGCGCGGAGTAAATGCTTCCGGGCTTGAACAACGCGCGGTACACCAATGAG 1406
DB 1324 TCAGATGCTGCGGTAATGCTTCCGGGCTTGTACACACGCGCGGTACCAATGAG 1383
QY 1407 AGTTGATTCACAGAGAGTGTGATGCTTA-CTTAGTGAAGGAGATCACACGAGTGTGT 1465
DB 1384 AGTGGGTTCACAGAGAGTGTGATGCTTA-CTTAGTGAAGGAGATCACACGAGTGTGT 1443
QY 1466 CGATGCTGCGGTGAAGTGTAAACAGTGAACCGTGAAGGAGCTTCCGCTGATGATC 1523
DB 1444 TCATGACTGGGTGAAGTGTAAACAGTGAACCGTGAAGGAGCTTCCGCTGATGATC 1501

RESULT 13
US-08-114-695A-1
Sequence 1, Application US/08114695A
Patent No. 5508193
GENERAL INFORMATION:
APPLICANT: Mandelbaum, Raphael T.
APPLICANT: Mackett, Lawrence P.
TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND
TITLE OF INVENTION: WATER
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
STREET: 3500 IDS CENTER
CITY: MINNEAPOLIS
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/114,695A
FILING DATE: 31-AUG-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MUELLING, ANN M.
REGISTRATION NUMBER: 33,977
REFERENCE/DOCKET NUMBER: 600,268US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-339-0331
TELEFAX: 612-339-3061

/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1542 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: rRNA
/ ORIGINAL SOURCE:
/ ORGANISM: Escherichia coli
US-08-114-695A-1

Query Match 70.5%; Score 1076; DB 2; Length 1542;
Best Local Similarity 67.2%; Pred. No. 0;
Matches 1008; Conservative 246; Mismatches 243; Indels 4; Gaps 3;

QY 30 GCGGCGAGGCTTAAACATGCAAGTCGAGCGGGAACGATGA--TTGCTTGTCTATTAGGCG 87
DB 38 GCGGCGAGGCTTAAACATGCAAGTCGAGCGGGAACGATGA--TTGCTTGTCTATTAGGCG 97
QY 88 TCGAGCAGCGGAGCGGAGTGAATTAATCTTAGAATCTAAGTGTGAGGAGTGAAGCTG 147
DB 98 GACGAGGCGGAGCGGAGTGAATTAATCTTAGAATCTAAGTGTGAGGAGTGAAGCTG 157
QY 148 GGGAAATCTGAATTAATCCGATACGCTTACGAGGAAAGCAGGAGTCTTAAAGCTT 207
DB 158 UGGAAACGGGAGTGAATTAATCCGATACGCTTACGAGGAAAGCAGGAGTCTTAAAGCTT 217
QY 208 GCGGCTAATTAAGTGAATTAATCCGATACGCTTACGAGGAAAGCAGGAGTCTTAAAGCTT 267
DB 218 UGGCAATGCGAGGAGTGAATTAATCCGATACGCTTACGAGGAAAGCAGGAGTCTTAAAGCTT 277
QY 268 GACGATCTGTAGCTGTGTGAGAGGATGATCAGCCACCGGAGCTGAGACAGGCGCCG 327
DB 278 GACGATCTGTAGCTGTGTGAGAGGATGATCAGCCACCGGAGCTGAGACAGGCGCCG 337
QY 328 ACT-CTACGCGAGGAGCAGAGTGGGGAATTTGGAATATGAGGAAACCTTGTATCCAGCA 386
DB 338 ACUCUACGCGGAGGAGCAGAGTGGGGAATTTGGAATATGAGGAAACCTTGTATCCAGCA 397
QY 387 TGCAGGCTGTGAGAGAGGAGGCTTTGGTTGAAGCACTTAAACAGTGAAGAAAGATC 446
DB 398 UGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 457
QY 447 TTCGCTTAATACCCCGGAGCAGATGATGATGATGATGATGATGATGATGATGATGATG 506
DB 458 UAAATUAAATACCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 517
QY 507 CCAGCAGCGCGGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 566
DB 518 CCAGCAGCGCGGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 577
QY 567 AGCGTAGGCTGTATTAAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 626
DB 578 CAGCGAGGCGGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 637
QY 627 TGAATCTGTAGGCTGTAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 686
DB 638 UGAATCTGTAGGCTGTAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 697
QY 687 GCGTAGAGTCTGAAGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 746
DB 698 GCGTAGAGTCTGAAGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 757
QY 747 GAGGCTGGAAGAGGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 806
DB 758 CAGGCTGGAAGAGGAGTGAATTAACAGAGGAGTGAAGCTTAACTGGAATTAATCTGAGGCTTAAAGCG 817
QY 807 GATGTCTAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 866
DB 818 GATGTCTAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 877
QY 867 ACCGCTTGGGAGTACGCGCGGAGGTTAAATCTCAATGAATGAATGAATGAATGAATGAATGAATGA 926

Db	989	GTACGCTCGTCCGAGATCTTTGGTTAAATCCCGTAAACGAGGGCAACCTTGTCCTTA	1048
Oy	1113	GTTACACGACAC-TTCGGGTGGGAACCTTAAAGATATCTGCAGTACAAACTGAGGAAGG	1171
Db	1049	GTTACACGACGTTAAAGGTGGGCACTTAAAGAGACGTGCGGTGACAAACCGAGGAAGG	1108
Oy	1172	CGGGGACGACGTCAAATCATATAGGCCCTTACGACAGGGGCTACACAGTGTCTCAATTGG	1231
Db	1109	TGGGGATGACGTCAAGTCATCATGAGCCCTTACGGGCTGGGCTACACAGTGTCTCAATTGG	1168
Oy	1232	TAGGTACAGAGGGCAGCTTACACAGCGATGTATGCGAATCTCAAAAAGCCTATGTGTGTC	1291
Db	1169	TCGGTACAAAGGGTTGCCAAGCCGGAGAGTGAGCTAATCCATATAAACCATGTGTGTC	1228
Oy	1292	CAGATTGAGTCTGCACTCCGACTTCATGAAGTAGGAATCCCTAGTAAATCGCGGATCAGA	1351
Db	1229	CGGATCGCAGTCTGCACTCCGACTTCGGAAGTCGGAATCCCTAGTAAATCTGTGATCAGA	1288
Oy	1352	ATGCCGCGGTGAATTCGTTCCCGGCGCTTGAACACACGCCCGGTACACCATGAGGAGTGG	1411
Db	1289	ATGTCAACGTTAAATAGTTCCCGGCGCTTGAACACACGCCCGGTACACCATGAGGAGTGG	1348
Oy	1412	ATTGCACAGAAAGTGGTTAGCCTTA-CTTAGTGAAGGGGATCACACAGGTGTGGCGATG	1470
Db	1349	GTTGTCAGAAAGTACTAGTCTTAACCTTCGGGGGACGTTAACACAGAGTATTTCAATG	1408
Oy	1471	ACTGGGGTGAAGTCTTAACAAGGTAGCGGTAGGGGAACCTGCGGCTGATCACTTC	1526
Db	1409	ACTGGGGTGAAGTCTTAACAAGGTAGCGGTAGGGGAACCTGCGGCTGATCACTTC	1464

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Job time : 350.745 secs

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OM nucleic - nucleic search, using bw model

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Title: US-09-979-558a-2

Perfect score: 19
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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database:

Published Applications NA Main:*

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- 2: /cgn2_6/prodata/1/pubpna/us08_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	16.4	86.3	1329	US-10-169-395-18	Sequence 18, Appl
2	16.4	86.3	1400	US-10-956-157-7824	Sequence 7824, Ap
3	16.4	86.3	1400	US-10-956-157-9435	Sequence 9435, Ap
4	16.4	86.3	1882	US-09-925-298-301	Sequence 301, App
5	16.4	86.3	1882	US-10-102-806-301	Sequence 301, App
6	16.4	86.3	1926	US-09-764-853-238	Sequence 238, App
7	16.4	86.3	1987	US-09-818-143-20	Sequence 20, Appl
8	16.4	86.3	1989	US-09-946-374-76	Sequence 76, Appl
9	16.4	86.3	1989	US-10-006-856A-76	Sequence 76, Appl
10	16.4	86.3	1989	US-10-006-818A-76	Sequence 76, Appl
11	16.4	86.3	1989	US-10-006-485A-76	Sequence 76, Appl
12	16.4	86.3	1989	US-10-013-907A-76	Sequence 76, Appl
13	16.4	86.3	1989	US-10-015-499A-76	Sequence 76, Appl
14	16.4	86.3	1989	US-10-015-393A-76	Sequence 76, Appl
15	16.4	86.3	1989	US-10-015-869A-76	Sequence 76, Appl
16	16.4	86.3	1989	US-10-012-121A-76	Sequence 76, Appl
17	16.4	86.3	1989	US-10-006-116A-76	Sequence 76, Appl
18	16.4	86.3	1989	US-10-006-117A-76	Sequence 76, Appl
19	16.4	86.3	1989	US-10-017-527A-76	Sequence 76, Appl
20	16.4	86.3	1989	US-10-013-913A-76	Sequence 76, Appl
21	16.4	86.3	1989	US-10-007-194A-76	Sequence 76, Appl
22	16.4	86.3	1989	US-10-013-430A-76	Sequence 76, Appl
23	16.4	86.3	1989	US-10-011-671A-76	Sequence 76, Appl

24	16.4	86.3	1989	US-10-012-755A-76	Sequence 76, Appl
25	16.4	86.3	1989	US-10-015-386A-76	Sequence 76, Appl
26	16.4	86.3	1989	US-10-011-692A-76	Sequence 76, Appl
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33	16.4	86.3	1989	US-10-011-833A-76	Sequence 76, Appl
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35	16.4	86.3	1989	US-10-015-822A-76	Sequence 76, Appl
36	16.4	86.3	1989	US-10-015-827A-76	Sequence 76, Appl
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38	16.4	86.3	1989	US-10-006-172A-76	Sequence 76, Appl
39	16.4	86.3	1989	US-10-017-253A-76	Sequence 76, Appl
40	16.4	86.3	1989	US-10-015-392A-76	Sequence 76, Appl
41	16.4	86.3	1989	US-10-017-306A-76	Sequence 76, Appl
42	16.4	86.3	1989	US-10-017-867A-76	Sequence 76, Appl
43	16.4	86.3	1989	US-10-012-064A-76	Sequence 76, Appl
44	16.4	86.3	1989	US-10-013-909A-76	Sequence 76, Appl
45	16.4	86.3	1989	US-10-015-671A-76	Sequence 76, Appl

ALIGNMENTS

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RESULT 1
US-10-169-395-18
; Sequence 18, Application US/10169395
; Publication No. US20040034192A1
; GENERAL INFORMATION:
; APPLICANT: KATO, Seishi
; APPLICANT: KIMURA, Tomoko
; TITLE OF INVENTION: HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING
; FILE REFERENCE: 01997.015100.US
; CURRENT APPLICATION NUMBER: US/10/169,395
; CURRENT FILING DATE: 2002-11-29
; PRIOR APPLICATION NUMBER: JP 2000-585
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-588
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-2239
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-26862
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: JP 2000-58367
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: PCT/JP00/09359
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 150
; SEQ ID NO 18
; LENGTH: 1329
; TYPE: DNA
; ORGANISM: Homo sapiens
;
Query Match      86.3%; Score 16.4; DB 7; Length 1329;
Best local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY      2 AATGTCATCGTCCCGAG 19
Db      982 AATGTCATCGTCCCGAG 999
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US-10-956-157-7824
; Sequence 7824, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
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/ APPLICANT: Mounts, William
/ TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
/ FILE REFERENCE: 031896-043000 (AM 101081)
/ CURRENT APPLICATION NUMBER: US/10/956,157
/ NUMBER OF SEQ ID NOS: 319805
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 7824
/ LENGTH: 1400
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-956-157-7824

Query Match      86.3%; Score 16.4; DB 9; Length 1400;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      123 AATGTCATCGTCCCGAG 140

RESULT 3
US-10-956-157-9435
/ Sequence 9435, Application US/10956157
/ Publication No. US20050118625A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
/ FILE REFERENCE: 031896-043000 (AM 101081)
/ CURRENT APPLICATION NUMBER: US/10/956,157
/ NUMBER OF SEQ ID NOS: 319805
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 9435
/ LENGTH: 1400
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-956-157-9435

Query Match      86.3%; Score 16.4; DB 9; Length 1400;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      420 AATGTCATCGTCCCGAG 437

RESULT 4
US-09-925-298-301
/ Sequence 301, Application US/09925298
/ Publication No. US20020039764A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
/ FILE REFERENCE: PA103
/ CURRENT APPLICATION NUMBER: US/09/925,298
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: PCT/US00/05881
/ PRIOR FILING DATE: 2000-03-08
/ PRIOR APPLICATION NUMBER: 60/124,270
/ PRIOR FILING DATE: 1999-03-12
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 301
/ LENGTH: 1882
/ TYPE: DNA
/ ORGANISM: Homo sapiens
FEATURE:
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/ NAME/KEY: misc_feature
/ LOCATION: (22)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (223)
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/ NAME/KEY: misc_feature
/ LOCATION: (1840)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
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/ OTHER INFORMATION: n equals a,t,g, or c
US-09-925-298-301

Query Match      86.3%; Score 16.4; DB 3; Length 1882;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      529 AATGTCATCGTCCCGAG 546

RESULT 5
US-10-102-806-301
/ Sequence 301, Application US/10102806
/ Publication No. US20030054421A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
/ FILE REFERENCE: PA103P1C1
/ CURRENT APPLICATION NUMBER: US/10/102,806
/ PRIOR FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: 09/925,298
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: PCT/US00/05881
/ PRIOR FILING DATE: 2000-03-08
/ PRIOR APPLICATION NUMBER: 60/124,270
/ PRIOR FILING DATE: 1999-03-12
/ NUMBER OF SEQ ID NOS: 846
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/ SEQ ID NO 301
/ LENGTH: 1882
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (22)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (223)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1840)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1845)
/ OTHER INFORMATION: n equals a,t,g, or c
US-10-102-806-301

Query Match      86.3%; Score 16.4; DB 5; Length 1882;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      529 AATGTCATCGTCCCGAG 546

RESULT 6
US-09-764-853-238
/ Sequence 238, Application US/09764853
/ Patent No. US20020090672A1
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; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-853-238

Query Match      86.3%; Score 16.4; DB 3; Length 1926;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db      573 AATGTCATCGTCCCGG 590

RESULT 7
US-09-818-143-20
; Sequence 20, Application US/09818143
; Patent No. US20020019000A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmutz, Wayne
; APPLICANT: Klingler, Tod W.
; TITLE OF INVENTION: POLYNUCLEOTIDES COEXPRESSED WITH MATRIX-REMODELING GENES
; FILE REFERENCE: PB-0004 CIP
; CURRENT APPLICATION NUMBER: US/09/818,143
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PERL Program
; SEQ ID NO 20
; LENGTH: 1987
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 3948614CB1
US-09-818-143-20

Query Match      86.3%; Score 16.4; DB 3; Length 1987;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
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Db      716 AATGTCATCGTCCCGG 733

RESULT 8
US-09-946-374-76
; Sequence 76, Application US/09946374
; Publication No. US2003007129A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C1
; CURRENT APPLICATION NUMBER: US/09/946,374
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
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PRIOR APPLICATION NUMBER: 60/103314
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PRIOR FILING DATE: 1998-10-22
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PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
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PRIOR APPLICATION NUMBER: 60/105807

Query Match 86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 715 AATGTCATCGTCCCGAG 732

RESULT 9
US-10-006-856A-76
Sequence 76, Application US/10006856A
Publication No. US20030044841A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrata, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C14
CURRENT APPLICATION NUMBER: US/10/006.856A
CURRENT FILING DATE: 2002-05-10
NUMBER OF SEQ ID NOS: 477

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/ Prior Application removed - See File Wrapper or Palm
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-856A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGTCCTCCCGG 19
DB      715 AATGTCATGTCCTCCCGG 732

RESULT 10
US-10-006-818A-76
/ Sequence 76, Application US/10006818A
/ Publication No. US20030054406A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Baton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Pan, James
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC4
/ CURRENT FILING DATE: 2001-12-06
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ. ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-818A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGTCCTCCCGG 19
DB      715 AATGTCATGTCCTCCCGG 732

RESULT 11
US-10-006-485A-76
/ Sequence 76, Application US/10006485A
/ Publication No. US20030064062A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Baton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
```

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/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Pan, James
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC9
/ CURRENT FILING DATE: 2001-12-06
/ PRIOR APPLICATION NUMBER: 60/098716
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098723
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098749
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098750
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098803
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/098821
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/ PRIOR APPLICATION NUMBER: 60/100848
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/ PRIOR FILING DATE: 1998-09-18
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/ PRIOR FILING DATE: 1998-09-29
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/ PRIOR APPLICATION NUMBER: 60/102484
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/ PRIOR APPLICATION NUMBER: 60/103396
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/ PRIOR FILING DATE: 1998-10-07
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/ PRIOR FILING DATE: 1998-10-08
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/ PRIOR FILING DATE: 1998-10-27
/ PRIOR APPLICATION NUMBER: 60/105881
/ PRIOR FILING DATE: 1998-10-27
/ PRIOR APPLICATION NUMBER: 60/105882
/ PRIOR FILING DATE: 1998-10-27
/ PRIOR APPLICATION NUMBER: 60/106023
/ PRIOR FILING DATE: 1998-10-28

Query Match 86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCGG 19
DB 715 AATGTCATCGTCCCGG 732

RESULT 12
US-10-013-907A-76
/ Sequence 76, Application US/10013907A
/ Publication No. US20030064925A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Baton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2830PIC34
/ CURRENT APPLICATION NUMBER: US/10/013,907A


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; CURRENT FILING DATE: 2001-12-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-013-907A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 13
US-10-015-499A-76
; Sequence 76, Application US/10015499A
; Publication No. US20030065142A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C42
; CURRENT APPLICATION NUMBER: US/10/015,499A
; CURRENT FILING DATE: 2001-12-11
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-499A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 14
US-10-015-393A-76
; Sequence 76, Application US/10015393A
; Publication No. US20030069179A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
```

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; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C46
; CURRENT APPLICATION NUMBER: US/10/015,393A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-393A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 15
US-10-015-869A-76
; Sequence 76, Application US/10015869A
; Publication No. US20030073130A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C45
; CURRENT APPLICATION NUMBER: US/10/015,869A
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-869A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

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Job time : 21.156 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 2, 2005, 23:40:24 Search time 3.17282 Seconds
(without alignments)
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Title: US-09-979-558a-2

Perfect score: 19 taatgtcatcgtcccg 19

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3289935 seqs, 155610033 residues

Total number of hits satisfying chosen parameters: 6579870

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.4	81.1	1042	US-10-750-185-61069	Sequence 61069, A
2	14.8	77.9	991	US-10-750-185-10544	Sequence 30544, A
3	14.8	77.9	1323	US-10-821-234-430	Sequence 430, App
4	14.8	77.9	1462	US-10-750-185-45402	Sequence 45402, A
5	14.4	75.8	19	US-11-101-244-1513769	Sequence 1513769, A
6	14.4	75.8	19	US-11-101-244-1513798	Sequence 1513798, A
7	14.4	75.8	19	US-11-083-784-1513769	Sequence 1513769, A
8	14.4	75.8	19	US-11-083-784-1513798	Sequence 1513798, A
9	14.4	75.8	1131	US-10-750-185-29301	Sequence 29301, A
10	14.2	74.7	1224	US-10-750-185-26730	Sequence 26730, A
11	14.2	74.7	1744	US-10-750-185-27275	Sequence 27275, A
12	14.2	74.7	3176	US-10-750-185-43645	Sequence 43645, A
13	14.2	74.7	155515	US-11-112-908-42	Sequence 42, App1
14	14.2	74.7	159660	US-11-112-908-43	Sequence 43, App1
15	14.2	74.7	177623	US-11-112-908-41	Sequence 41, App1
16	14.2	73.7	1799	US-10-750-185-56513	Sequence 56513, A
17	13.8	72.6	19	US-11-101-244-183098	Sequence 183098, A
18	13.8	72.6	19	US-11-083-784-183098	Sequence 183098, A
19	13.8	72.6	717	US-10-467-657-5135	Sequence 5135, App
20	13.8	72.6	762	US-10-467-657-5137	Sequence 5137, App
21	13.8	72.6	1411	US-10-750-185-36853	Sequence 36853, A
22	13.8	72.6	1806	US-10-131-826A-121	Sequence 121, App
23	13.8	72.6	2292	US-10-821-234-168	Sequence 168, App

24	13.8	72.6	3055	US-11-102-217-26	Sequence 26, App1
25	13.8	72.6	3532	US-10-750-185-51277	Sequence 51277, A
26	13.8	72.6	5034	US-11-102-217-30	Sequence 30, App1
27	13.8	72.6	5483	US-11-102-217-38	Sequence 38, App1
28	13.8	72.6	6071	US-11-102-217-29	Sequence 29, App1
29	13.8	72.6	7926	US-11-102-217-53	Sequence 53, App1
30	13.8	72.6	8499	US-11-102-217-37	Sequence 37, App1
31	13.4	70.5	19	US-11-101-244-49886	Sequence 49886, A
32	13.4	70.5	19	US-11-083-784-49886	Sequence 49886, A
33	13.4	70.5	1146	US-10-858-730-171	Sequence 171, App
34	13.4	70.5	16382	US-11-108-172-1112	Sequence 1112, App
35	13.2	69.5	19	US-11-101-244-1282003	Sequence 1282003, A
36	13.2	69.5	19	US-11-083-784-1282003	Sequence 1282003, A
37	13.2	69.5	552	US-11-074-176-15	Sequence 15, App1
38	13.2	69.5	600	US-10-750-185-20926	Sequence 20926, A
39	13.2	69.5	936	US-10-750-185-37279	Sequence 37279, A
40	13.2	69.5	1158	US-10-392-234A-27	Sequence 27, App1
41	13.2	69.5	1212	US-10-858-730-55	Sequence 55, App1
42	13.2	69.5	1448	US-10-750-185-46298	Sequence 46298, A
43	13.2	69.5	1534	US-10-750-185-62976	Sequence 62976, A
44	13.2	69.5	1594	US-10-750-185-43137	Sequence 43137, A
45	13.2	69.5	1648	US-10-750-185-59897	Sequence 59897, A

ALIGNMENTS

RESULT 1
US-10-750-185-61069
Sequence 61069, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMT GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERK, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 61069
LENGTH: 1042
TYPE: DNA
ORGANISM: Bovine 19866881140809
US-10-750-185-61069

Query Match 81.1%; Score 15.4; DB 6; Length 1042;
Best Local Similarity 94.1%; Pred. No. 43;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TAAATGTCATGTCCTCCG 17
DB 900 TAAATGTCATGTCCTCCG 916

RESULT 2
US-10-750-185-30544/c
Sequence 30544, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMT GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERK, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen

```
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ PRIOR FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 30544
/ LENGTH: 991
/ TYPE: DNA
/ ORGANISM: Bovine 19866881165598
US-10-750-185-30544

Query Match      77.9%; Score 14.8; DB 6; Length 991;
Best Local Similarity 88.9%; Pred. No. 85;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 AATGTCATCGTCCCCGG 19
Db      731 AATGTCATCTTCCACGG 714

RESULT 3
US-10-821-234-430/c
/ Sequence 430, Application US/10821234
/ Publication No. US20050255114A1
/ GENERAL INFORMATION:
/ APPLICANT: Labat, Ivan
/ APPLICANT: Stache-Crain, Birgit
/ APPLICANT: Andarmeh, Susan
/ APPLICANT: Tang, Y. Tom
/ TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
/ FILE REFERENCE: 821A
/ CURRENT APPLICATION NUMBER: US/10/821,234
/ CURRENT FILING DATE: 2004-04-07
/ PRIOR APPLICATION NUMBER: US 60/462,047
/ PRIOR FILING DATE: 2003-04-07
/ NUMBER OF SEQ ID NOS: 1704
/ SOFTWARE: PC_SEQ_genes Version 1.0
/ SEQ ID NO: 430
/ LENGTH: 1323
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-821-234-430

Query Match      77.9%; Score 14.8; DB 6; Length 1323;
Best Local Similarity 88.9%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 AATGTCATCGTCCCCGG 19
Db      1275 AATGTCATCTTCCACGG 1258

RESULT 4
US-10-750-185-45402
/ Sequence 45402, Application US/10750185
/ Publication No. US200502603A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFIELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
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/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 45402
/ LENGTH: 1462
/ TYPE: DNA
/ ORGANISM: Bovine 19866880900426
US-10-750-185-45402

Query Match      77.9%; Score 14.8; DB 6; Length 1462;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TAATGTCATCGTCCCCGG 18
Db      1274 TAATGTCATGTCCTCG 1291

RESULT 5
US-11-101-244-1513769/c
/ Sequence 1513769, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 1513769
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1513769

Query Match      75.8%; Score 14.4; DB 8; Length 19;
Best Local Similarity 93.8%; Pred. No. 11e-02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 AATGTCATCGTCCCCG 17
Db      19 AATGTCATGTCCTCG 4

RESULT 6
US-11-101-244-1513798/c
/ Sequence 1513798, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
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NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1513798
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-1513798

Query Match 75.8%; Score 14.4; DB 8; Length 19;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17
Db 16 AATGTCATCGTCTCG 1

RESULT 7
US-11-083-784-1513769/c
Sequence 1513769, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Pharmacom, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13498US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1513769
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1513769

Query Match 75.8%; Score 14.4; DB 9; Length 19;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17
Db 19 AATGTCATCGTCTCG 4

RESULT 8
US-11-083-784-1513798/c
Sequence 1513798, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Pharmacom, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13498US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1513798
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1513798

Query Match 75.8%; Score 14.4; DB 9; Length 19;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17
Db 16 AATGTCATCGTCTCG 1

RESULT 9
US-10-750-185-29301
Sequence 29301, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMT GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 29301
LENGTH: 1131
TYPE: DNA
ORGANISM: Bovine 19866881234047
US-10-750-185-29301

Query Match 75.8%; Score 14.4; DB 6; Length 1131;
Best Local Similarity 93.8%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TGTGATGTCGCCCGG 19
Db 110 TGTGATGTCGCCCGG 125

RESULT 10
US-10-750-185-26730
Sequence 26730, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMT GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31

/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 26730
/ LENGTH: 1224
/ TYPE: DNA
/ ORGANISM: Bovine 19866881201331
US-10-750-185-26730

Query Match 74.7%; Score 14.2; DB 6; Length 1224;
Best Local Similarity 84.2%; Pred. No. 1.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19
DB 374 TAATGTCATGTCCTCCAGG 392

RESULT 11
US-10-750-185-27275

/ Sequence 27275, Application US/10750185
/ Publication No. US20050260603A1
/ GENERAL INFORMATION:

/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 27275
/ LENGTH: 1744
/ TYPE: DNA
/ ORGANISM: Bovine 19866880624605
US-10-750-185-27275

Query Match 74.7%; Score 14.2; DB 6; Length 1744;
Best Local Similarity 84.2%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19
DB 1089 TACTGTCATGTCCTCGGG 1107

RESULT 12

US-10-750-185-43645/c
/ Sequence 43645, Application US/10750185
/ Publication No. US20050260603A1
/ GENERAL INFORMATION:

/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 43645

/ LENGTH: 3176
/ TYPE: DNA
/ ORGANISM: Bovine 19866880681516
US-10-750-185-43645

Query Match 74.7%; Score 14.2; DB 6; Length 3176;
Best Local Similarity 84.2%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19
DB 172 TCATGTCATGTCCTCGG 154

RESULT 13
US-11-112-908-42

/ Sequence 42, Application US/11112908
/ Publication No. US20050260659A1
/ GENERAL INFORMATION:

/ APPLICANT: Harris, Cole
/ APPLICANT: Davis, Lisa M.
/ TITLE OF INVENTION: Breast Cancer Biomarkers
/ FILE REFERENCE: 04-164-US
/ CURRENT APPLICATION NUMBER: US/11/112,908
/ CURRENT FILING DATE: 2005-04-22
/ PRIOR APPLICATION NUMBER: US 60/564,758
/ PRIOR FILING DATE: 2004-04-23
/ PRIOR APPLICATION NUMBER: US 60/575,978
/ PRIOR FILING DATE: 2004-06-01
/ PRIOR APPLICATION NUMBER: US 60/631,702
/ PRIOR FILING DATE: 2004-11-30
/ PRIOR APPLICATION NUMBER: US 60/633,826
/ PRIOR FILING DATE: 2004-12-07
/ NUMBER OF SEQ ID NOS: 511
/ SOFTWARE: Patentin version 3.3
/ SEQ ID NO 42
/ LENGTH: 155515
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-11-112-908-42

Query Match 74.7%; Score 14.2; DB 7; Length 155515;
Best Local Similarity 84.2%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19
DB 101533 TAATGTCATGTCCTCGGG 101551

RESULT 14
US-11-112-908-43

/ Sequence 43, Application US/11112908
/ Publication No. US20050260659A1
/ GENERAL INFORMATION:

/ APPLICANT: Harris, Cole
/ APPLICANT: Davis, Lisa M.
/ TITLE OF INVENTION: Breast Cancer Biomarkers
/ FILE REFERENCE: 04-164-US
/ CURRENT APPLICATION NUMBER: US/11/112,908
/ CURRENT FILING DATE: 2005-04-22
/ PRIOR APPLICATION NUMBER: US 60/564,758
/ PRIOR FILING DATE: 2004-04-23
/ PRIOR APPLICATION NUMBER: US 60/575,978
/ PRIOR FILING DATE: 2004-06-01
/ PRIOR APPLICATION NUMBER: US 60/631,702
/ PRIOR FILING DATE: 2004-11-30
/ PRIOR APPLICATION NUMBER: US 60/633,826
/ PRIOR FILING DATE: 2004-12-07
/ NUMBER OF SEQ ID NOS: 511
/ SOFTWARE: Patentin version 3.3
/ SEQ ID NO 43
/ LENGTH: 155660

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-43

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Query Match          74.7%; Score 14.2; DB 7; Length 159660;
Best Local Similarity 84.2%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY      1 TAATGTCATGTCCTCCGGG 19
      ||||| ||||| |||||
Db      91336 TAATGCCATGTCCTCGGG 91354

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RESULT 15
US-11-112-908-41
; Sequence 41, Application US/11112908
; Publication No. US20050260559A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 177623
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-41

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Query Match          74.7%; Score 14.2; DB 7; Length 177623;
Best Local Similarity 84.2%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY      1 TAATGTCATGTCCTCCGGG 19
      ||||| ||||| |||||
Db      159600 TAATGCCATGTCCTCGGG 159618

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 Job time : 4.17282 secs

Fig. 1 Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using BW model

Run on: December 2, 2005, 14:31:47 ; Search time 4.25502 Seconds
(without alignments)
7937.378 Million cell updates/sec

Title: US-09-979-558a-2

Perfect score: 1 taatgcatcgtcccgag 19

Scoring table: IDENTITY NUC
Gapco 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

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Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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- 5: /cgn2_6/prodata/1/ina/H.COMB.seq:*
- 6: /cgn2_6/prodata/1/ina/PCTUS.COMB.seq:*
- 7: /cgn2_6/prodata/1/ina/PP.COMB.seq:*
- 8: /cgn2_6/prodata/1/ina/RE.COMB.seq:*
- 9: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16.4	86.3	1989	US-10-012-231A-76	Sequence 76, Appl
2	16.4	86.3	1989	US-10-015-389A-76	Sequence 76, Appl
3	16.4	86.3	1989	US-10-006-768A-76	Sequence 76, Appl
4	16.4	86.3	1989	US-10-015-671A-76	Sequence 76, Appl
5	16.4	86.3	1989	US-10-015-393A-76	Sequence 76, Appl
6	16.4	86.3	1989	US-10-011-833A-76	Sequence 76, Appl
7	16.4	86.3	1989	US-10-006-041A-76	Sequence 76, Appl
8	16.4	86.3	1989	US-10-012-064A-76	Sequence 76, Appl
9	16.4	86.3	2132	US-09-552-322-1	Sequence 1, Appl
10	15.4	81.1	597	US-09-605-703B-2881	Sequence 2881, Ap
11	15.4	81.1	601	US-09-949-016-136502	Sequence 136302,
12	15.4	81.1	2338	US-09-582-337-1	Sequence 1, Appl
13	15.4	81.1	2350	US-09-187-478-1	Sequence 1, Appl
14	15.4	81.1	2350	US-09-292-036-1	Sequence 1, Appl
15	15.4	81.1	51049	US-09-949-016-15571	Sequence 15571, A
16	15.4	81.1	636	US-09-902-540-8517	Sequence 8517, Ap
17	15.4	81.1	6855	US-09-902-540-897	Sequence 897, Ap
18	14.8	77.9	99	US-08-427-097-12	Sequence 12, Appl
19	14.8	77.9	99	US-08-878-957-12	Sequence 12, Appl
20	14.8	77.9	170	US-08-419-078-5	Sequence 5, Appl
21	14.8	77.9	170	US-08-419-078-5	Sequence 5, Appl
22	14.8	77.9	170	US-08-726-883-5	Sequence 5, Appl
23	14.8	77.9	170	US-08-726-883-5	Sequence 5, Appl
24	14.8	77.9	300	US-08-419-078-4	Sequence 4, Appl

c	25	14.8	77.9	300	2	US-08-726-883-4	Sequence 4, Appl
	26	14.8	77.9	384	3	US-09-389-681-451	Sequence 451, App
	27	14.8	77.9	384	3	US-09-620-405B-451	Sequence 451, App
	28	14.8	77.9	384	3	US-09-433-828B-451	Sequence 451, App
	29	14.8	77.9	384	3	US-09-604-287A-451	Sequence 451, App
	30	14.8	77.9	384	3	US-09-834-759-451	Sequence 451, App
	31	14.8	77.9	384	3	US-09-590-751A-451	Sequence 451, App
	32	14.8	77.9	384	3	US-09-551-621A-451	Sequence 451, App
	33	14.8	77.9	384	3	US-09-551-621A-451	Sequence 451, App
	34	14.8	77.9	384	3	US-10-076-622-451	Sequence 451, App
	35	14.8	77.9	686	3	US-09-533-559-6102	Sequence 6102, Ap
c	36	14.8	77.9	879	3	US-09-248-796A-7856	Sequence 7856, Ap
	37	14.8	77.9	1022	3	US-10-002-344A-48	Sequence 48, Appl
c	38	14.8	77.9	1322	2	US-08-419-078-1	Sequence 1, Appl
c	39	14.8	77.9	1322	2	US-08-726-883-1	Sequence 1, Appl
c	40	14.8	77.9	1323	3	US-09-023-655-55	Sequence 55, Appl
c	41	14.8	77.9	1594	3	US-09-270-767-14907	Sequence 14907, A
c	42	14.8	77.9	1752	2	US-08-427-097-13	Sequence 13, Appl
	43	14.8	77.9	1752	2	US-08-427-097-13	Sequence 13, Appl
	44	14.8	77.9	1752	2	US-08-878-957-13	Sequence 13, Appl
	45	14.8	77.9	1752	2	US-08-878-957-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-10-012-231A-76
; Sequence 76, Application US/10012231A
; Patent No. 6924355
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Pong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gunney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC23
; CURRENT APPLICATION NUMBER: US/10/012,231A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-231A-76
Query Match 86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Db 715 AATGTCATCGTCCCGAG 732
OY 2 AATGTCATCGTCCCGAG 19
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US-10-015-389A-76
; Sequence 76, Application US/10015389A
; Patent No. 6936436
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

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/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Baton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C48
/ CURRENT APPLICATION NUMBER: US/10/015,389A
/ CURRENT FILING DATE: 2002-06-25
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-015-389A-76
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Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 AATGTCATCGTCCCGGG 19
        |||||
Db      715 AATGTCATCGTCCCGAG 732
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RESULT 3
US-10-006-768A-76
/ Sequence 76, Application US/10006768A
/ Patent No. 6936697
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C10
/ CURRENT APPLICATION NUMBER: US/10/006,768A
/ CURRENT FILING DATE: 2002-03-05
/ NUMBER OF SEQ ID NOS: 477
/ Prior Application removed - See File Wrapper or Palm
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-768A-76
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Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 AATGTCATCGTCCCGGG 19
        |||||
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Db      715 AATGTCATCGTCCCGAG 732
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RESULT 4
US-10-015-671A-76
/ Sequence 76, Application US/10015671A
/ Patent No. 6946263
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C47
/ CURRENT APPLICATION NUMBER: US/10/015,671A
/ CURRENT FILING DATE: 2001-12-11
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-015-671A-76
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Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 AATGTCATCGTCCCGGG 19
        |||||
Db      715 AATGTCATCGTCCCGAG 732
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```
RESULT 5
US-10-015-393A-76
/ Sequence 76, Application US/10015393A
/ Patent No. 6951737
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C46
/ CURRENT APPLICATION NUMBER: US/10/015,393A
/ CURRENT FILING DATE: 2002-06-10
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
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/ ORGANISM: Homo sapiens
US-10-015-393A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 6
US-10-011-833A-76
/ Sequence 76, Application US/10011833A
/ Patent No. 6951920
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Peoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2830PIC22
/ CURRENT APPLICATION NUMBER: US/10/011,833A
/ CURRENT FILING DATE: 2002-06-25
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-011-833A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 7
US-10-006-041A-76
/ Sequence 76, Application US/10006041A
/ Patent No. 6951921
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Peoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2830PIC8
/ CURRENT APPLICATION NUMBER: US/10/006,041A
/ CURRENT FILING DATE: 2001-12-06
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-041A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 8
US-10-012-064A-76
/ Sequence 76, Application US/10012064A
/ Patent No. 6953841
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Peoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2830PIC19
/ CURRENT APPLICATION NUMBER: US/10/012,064A
/ CURRENT FILING DATE: 2002-07-15
/ PRIOR APPLICATION NUMBER: 60/098716
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098723
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098749
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098750
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098803
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/098821
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/098843
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/099536
/ PRIOR FILING DATE: 1998-09-09
/ PRIOR APPLICATION NUMBER: 60/099596
/ PRIOR FILING DATE: 1998-09-09
/ PRIOR APPLICATION NUMBER: 60/099598
/ PRIOR FILING DATE: 1998-09-09
/ Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-012-064A-76
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Query Match 86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 19
|||||
DB 715 AATGTCATGTCCTCCCGG 732

RESULT 9

US-09-552-322-1
; Sequence 1, Application US/09552322
; Patent No. 6436642
; GENERAL INFORMATION:
; APPLICANT: Gould-Rothberg
; APPLICANT: Rastelli
; TITLE OF INVENTION: METHOD OF CLASSIFYING A THYROID CARCINOMA USING
; FILE REFERENCE: 15966-548
; CURRENT APPLICATION NUMBER: US/09/552,322
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 60/130,123
; PRIOR FILING DATE: 1999-04-20
; PRIOR APPLICATION NUMBER: 60/193,203
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2132
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-552-322-1

Query Match 86.3%; Score 16.4; DB 3; Length 2132;
Best Local Similarity 94.4%; Pred. No. 98;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 19
|||||
DB 844 AATGTCATGTCCTCCCGG 861

RESULT 10

US-09-605-703B-2881/C
; Sequence 2881, Application US/09605703B
; Patent No. 6962988
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Krogger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habehauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
; FILE REFERENCE: BGI-129CP
; CURRENT APPLICATION NUMBER: US/09/605,703B
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: 60/142,764
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 60/152,318
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 2334
; SEQ ID NO 2881
; LENGTH: 597
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(574)
; OTHER INFORMATION: RXA02751
US-09-605-703B-2881

Query Match 81.1%; Score 15.4; DB 4; Length 597;

Best Local Similarity 94.1%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 18
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DB 394 AATGTCATGTCCTCCCGG 378

RESULT 11

US-09-949-016-136302
; Sequence 136302, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136302
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-136302

Query Match 81.1%; Score 15.4; DB 3; Length 601;
Best Local Similarity 94.1%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGG 19
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DB 61 ATGTCATGTCCTCCCGG 77

RESULT 12

US-09-582-337-1/C
; Sequence 1, Application US/09582337
; Patent No. 6552618
; GENERAL INFORMATION:
; APPLICANT: Japan Tobacco, Inc.
; TITLE OF INVENTION: Monoclonal Antibody Against Connective Tissue Growth Factor
; FILE REFERENCE: JI-009PCT
; CURRENT APPLICATION NUMBER: US/09/582,337
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: JP P1997-367699
; PRIOR FILING DATE: 1997-12-25
; PRIOR APPLICATION NUMBER: JP P1998-356183
; PRIOR FILING DATE: 1998-12-15
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2338
; TYPE: DNA
; ORGANISM: Rat
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(212)
; NAME/KEY: CDS
; LOCATION: (213)..(1256)
; NAME/KEY: 3'UTR
; LOCATION: (1257)..(2338)
; NAME/KEY: polyA_signal
; LOCATION: (2297)..(2302)
US-09-582-337-1

Query Match 81.1%; Score 15.4; DB 3; Length 2338;
Best Local Similarity 94.1%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGGG 19
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DB 1210 ATGTCATTGTCTCCCGGG 1194

RESULT 13
US-09-187-478-1/c
; Sequence 1, Application US/09187478
; Patent No. 6348328
; GENERAL INFORMATION:
; APPLICANT: Schmidt, Brian F.
; APPLICANT: Allen, Margaret L.
; TITLE OF INVENTION: Connective Tissue Growth (CTGF) And Methods Of Use
; FILE REFERENCE: 08766/004001
; CURRENT APPLICATION NUMBER: US/09/187,478
; PRIOR FILING DATE: 1998-11-06
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: No. 6348329mal Rate Kidney Fibroblast
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (212)..(1252)
US-09-187-478-1

Query Match 81.1%; Score 15.4; DB 3; Length 2350;
Best Local Similarity 94.1%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGGG 19
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DB 1209 ATGTCATTGTCTCCCGGG 1193

RESULT 14
US-09-292-036-1/c
; Sequence 1, Application US/09292036
; Patent No. 6358741
; GENERAL INFORMATION:
; APPLICANT: FIBROGEN, INC
; APPLICANT: SCHMIDT, Brian
; APPLICANT: ALLEN, Margaret
; APPLICANT: SVERDRUP, Fran
; APPLICANT: CARMICHAEL, David
; TITLE OF INVENTION: CONNECTIVE TISSUE GROWTH FACTOR (CTGF) AND METHODS OF USE
; FILE REFERENCE: FIBRO1100-1
; CURRENT APPLICATION NUMBER: US/09/292,036
; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: US 09/292,036
; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: US 09/187,478
; PRIOR FILING DATE: 1998-11-06
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: Rat
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (212)..(1252)
US-09-292-036-1

Query Match 81.1%; Score 15.4; DB 3; Length 2350;
Best Local Similarity 94.1%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGGG 19
|||||
DB 1209 ATGTCATTGTCTCCCGGG 1193

RESULT 15
US-09-949-016-15571/c
; Sequence 15571, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15571
; LENGTH: 51049
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15571

Query Match 81.1%; Score 15.4; DB 3; Length 51049;
Best Local Similarity 94.1%; Pred. No. 3.6e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGGG 19
|||||
DB 13225 ATGTCATTGTCTCCCGGG 13209

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Job time : 6.25502 secs

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OW nucleic - nucleic search, using sw model

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(without alignment))
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Title: US-09-979-558a-1

Perfect score: 1526

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Post-processing: Minimum Match 0%

Maximum Match 100%

Database: Published Applications_NA_New.*

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5: /cgn2_6/prodata/1/pubpna/PCR_NEW_PUB.seq.*
6: /cgn2_6/prodata/1/pubpna/US10_NEW_PUB.seq.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	875.4	57.4	1513	US-11-055-637-79	Sequence 79, Appl
2	848.2	55.6	1548	US-10-793-568A-42	Sequence 42, Appl
3	847.6	55.5	1466	US-11-055-637-69	Sequence 69, Appl
4	845.4	55.4	1549	US-10-793-568A-40	Sequence 40, Appl
5	841.8	55.2	1548	US-10-793-568A-41	Sequence 41, Appl
6	840.4	55.1	1507	US-11-055-637-78	Sequence 78, Appl
7	839.2	55.0	1545	US-11-055-637-66	Sequence 66, Appl
8	822.2	53.9	1535	US-11-055-637-74	Sequence 74, Appl
9	822.2	53.9	1485	US-11-055-637-76	Sequence 76, Appl
10	821.2	53.8	3166	US-10-793-626-3356	Sequence 3356, Ap
11	821.2	53.8	3308	US-10-793-626-3905	Sequence 3305, Ap
12	819.6	53.7	3821	US-10-793-626-3967	Sequence 3821, Ap
13	818	53.6	3008	US-10-793-626-4460	Sequence 4460, Ap
14	818	53.6	3657	US-10-793-626-4187	Sequence 4187, Ap
15	817.2	53.6	1486	US-11-055-637-71	Sequence 71, Appl
16	815	53.4	1505	US-11-055-637-80	Sequence 80, Appl
17	806.8	52.9	1491	US-11-055-637-83	Sequence 83, Appl
18	799.8	52.4	1459	US-11-084-508-3	Sequence 3, Appl
19	797.2	52.2	1470	US-11-055-637-84	Sequence 84, Appl
20	796.8	52.2	1481	US-11-055-637-72	Sequence 72, Appl
21	791.2	51.8	1422	US-11-055-637-65	Sequence 65, Appl
22	788.8	51.7	3171	US-10-793-626-3537	Sequence 3537, Ap
23	784	51.4	3253	US-10-793-626-3955	Sequence 3955, Ap

24	777.2	50.9	1405	US-11-055-637-70	Sequence 70, Appl
25	768	50.3	1422	US-11-055-637-81	Sequence 81, Appl
26	761	49.9	1446	US-11-055-637-75	Sequence 75, Appl
27	759	49.7	1507	US-11-055-637-73	Sequence 73, Appl
28	758.4	49.7	1427	US-11-055-637-68	Sequence 68, Appl
29	754.4	49.4	1429	US-11-055-637-67	Sequence 67, Appl
30	753.4	49.4	1517	US-10-500-834-1	Sequence 1, Appl
31	748.4	49.0	1496	US-11-055-637-77	Sequence 77, Appl
32	706.6	46.3	1505	US-11-055-637-82	Sequence 82, Appl
33	700.4	45.9	1403	US-10-522-454-1	Sequence 1, Appl
34	668	43.8	3427	US-10-793-626-3884	Sequence 3884, Ap
35	569	37.3	2839	US-10-793-626-4362	Sequence 4362, Ap
36	558	36.6	1085	US-10-793-626-4463	Sequence 4463, Ap
37	545	35.7	4429	US-10-793-626-3664	Sequence 3664, Ap
38	542.2	35.5	2436	US-10-793-626-4424	Sequence 4424, Ap
39	517.4	33.9	3444	US-10-793-626-4356	Sequence 4356, Ap
40	503	33.0	3275	US-10-793-626-3557	Sequence 3557, Ap
41	449.4	29.4	3929	US-10-793-626-3610	Sequence 3610, Ap
42	447.8	29.3	3713	US-10-793-626-3378	Sequence 3378, Ap
43	420.6	27.6	2857	US-10-793-626-4004	Sequence 4004, Ap
44	324.8	21.3	3500	US-10-793-626-3882	Sequence 3882, Ap
45	324.8	21.3	3513	US-10-793-626-3351	Sequence 3351, Ap

ALIGNMENTS

```
RESULT 1
US-11-055-637-79
; Sequence 79, Application US/11055637
; Publication No. US20050260619A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; FILE REFERENCE: 2139-3305
; CURRENT APPLICATION NUMBER: US/11/055,637
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 1513
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-79
Query Match 57.4%; Score 875.4; DB 7; Length 1513;
Best Local Similarity 76.5%; Pred. No. 2,8e+273;
Matches 1153; Conservative 0; Mismatches 339; Indels 16; Gaps 6;
QY 30 GGGCGAGGCTTAACATCAAGTCGAGCGGAAAGATGATGCTTATTAGGCGTC 89
DB 7 GGGCGGCTGCTTAATACATCAAGTCGAGCGGAAAGATGATGCTTATTAGGCGTC 66
QY 90 GAGCGCGGAGCGGAGTGAATTAATCTTAAGTCTTAAGTGGGGATGCTTCGGG 149
DB 67 TAGCGGCGGAGCGGAGTGAATTAATCTTAAGTCTTAAGTGGGGATGCTTCGGG 126
QY 150 GAAACTCGAATTAATACCGAT-----ACGCTACGCGGAGGAGGCGGTCAT 139
DB 127 GAAACCGGCGGAGTGAATTAATCTTAAGTCTTAAGTGGGGATGCTTCGGG 186
QY 200 TAGACCTTGCGCTATTAGATGAGCTTAAGTGGATTAGTGGTGGGTTAAAGCGCT 259
DB 187 TTGGCGCTGCTATTAGATGAGCTTAAGTGGATTAGTGGTGGGTTAAAGCGCTC 246
```


OY	260	ACCAATGGGAGCGA	CTCTGTAAGCTG	GTCTAGAGGAGAT	CACGACA	CCGGGACTG	GACGA	312
Db	247	ACCAAGGCGACG	ATCGTAAGCCG	ACTGAGGGTGAT	TGGCACA	CTGGGACTG	GACGA	306
OY	320	CGCCCCGGACT	CTACGGGAGG	CACAGCTGGGGAA	TATTGGA	CAATGAGGGAA	CCCTGA	378
Db	307	CGGCCAGACT	CTTACGGGAGG	CACAGTAGGAA	TCTTCGCA	ATTGACGAA	AGTCTGA	366
OY	379	TCCAGCCATG	CCGCGTGTGT	GAAGAAGG	CTTTTGTT	GTAAAGCA	CTTTAAGCA	438
Db	367	CGGACCAACG	CCGCGTGTGT	GAAGAAGG	CTTTTGTT	GTAAAGCA	CTTTAAGCA	426
OY	439	GAA	-GACTCTTG	GCTTAATAC	CCGGGGAG	CGATGAC	ATTAGCTG	497
Db	427	GAA	CAAGTGCT	AGTTGAA	TAGCTGGAC	CTTGACG	GTAACTTA	486
OY	498	AACTCTGTG	CCAGCAG	CCCGGTAA	TACAGAGG	GTGCAAG	CGTTAAT	557
Db	487	AACTACGTG	CCAGCAG	CCCGGTAA	TACAGAGG	GTGCAAG	CGTTAAT	546
OY	558	CGTAAGGAG	GAGTGTG	GGCTGTA	TAAAGT	CAGATG	TAAAT	617
Db	547	CGTAAGGAG	GAGTGTG	GGCTGTA	TAAAGT	CAGATG	TAAAT	606
OY	618	AACTGCAT	CTGAAACT	GTGTAGG	CTAGAGT	AGGTGAG	GAGGAAT	677
Db	607	AACTGCAT	CTGAAACT	GTGTAGG	CTAGAGT	AGGTGAG	GAGGAAT	666
OY	678	CGGTAAAT	TGCTTA	AGATCT	GAAAGAT	TCCGAT	TGGGAG	737
Db	667	CGGTAAAT	TGCTTA	AGATCT	GAAAGAT	TCCGAT	TGGGAG	726
OY	738	ACTGACACT	GAGCT	CGAAAG	CGGTGGT	AGCAAA	CAGGATTA	797
Db	727	ACTGACACT	GAGCT	CGAAAG	CGGTGGT	AGCAAA	CAGGATTA	786
OY	798	GCCGTAA	ACGATG	TCTACT	AGTCGTT	GGGTCCT	TGAGAC	856
Db	787	GCCGTAA	ACGATG	TCTACT	AGTCGTT	GGGTCCT	TGAGAC	846
OY	857	CAATTAAG	AGAGAC	CGGCTGG	GGGAGT	ACGGCCG	GAAGTT	916
Db	847	CAATTAAG	AGAGAC	CGGCTGG	GGGAGT	ACGGCCG	GAAGTT	906
OY	917	GGCCCGCA	CAGCGGT	GAGCA	TGTGT	TATTTG	ATGAC	976
Db	907	GGCCCGCA	CAGCGGT	GAGCA	TGTGT	TATTTG	ATGAC	966
OY	977	GTCTTGA	CATAC	AGAACT	TTTGT	AGAAAT	ACGAA	1036
Db	967	GTCTTGA	CATAC	AGAACT	TTTGT	AGAAAT	ACGAA	1026
OY	1037	GTGCTG	ACGTG	CTGCTG	CTGCTG	CTGAGAT	GTGGGTT	1096
Db	1027	GTGCTG	ACGTG	CTGCTG	CTGCTG	CTGAGAT	GTGGGTT	1086
OY	1097	GCAACCT	TTTGCT	CTTATG	TACAGAC	CTT	CGGCTGG	1156
Db	1087	GCAACCT	TTTGCT	CTTATG	TACAGAC	CTT	CGGCTGG	1145
OY	1157	CAAACTG	AGAGG	AGCGGGAG	AGCAT	CGATG	GGCCCTTA	1216
Db	1146	CAAACTG	AGAGG	AGCGGGAG	AGCAT	CGATG	GGCCCTTA	1205
OY	1217	CACGTG	CTACAT	TGGTAG	GTACAG	AGGGCAG	CTACAC	1276
Db	1206	CACGTG	CTACAT	TGGTAG	GTACAG	AGGGCAG	CTACAC	1265
OY	1277	AAAGCT	TAATG	TAATG	TAATG	TAATG	TAATG	1336
Db	1266	AAAGCT	TAATG	TAATG	TAATG	TAATG	TAATG	1325

QY	1337	TAAATCGGGATACAAATAGCCGGCGGTGAATACGTTCCGGGGCTTGTAACAACGCCCGTC	1336
Db	1326	TAAATCGGGATACAAATAGCCGGCGGTGAATACGTTCCGGGGCTTGTAACAACGCCCGTC	1385
QY	1397	ACACCATGGGAGTTGATTTGCACCAAGATGTTAGCCTAAC--TTAGTGAAGGGCATCAC	1454
Db	1386	ACACCAAGAGGTTTGTATACACCCGGAAGTGCGTGGGTTAACCTTTATGAGACGACGGCC	1445
QY	1455	CACGGTGTGTCATGACCTGGGGGTGAAGTGTAAACAAGTAGCCGTAGGGGAACCTGCGG	1514
Db	1446	TAAAGTGGGACAGATGATGGTGGGTGAAGTGTAAACAAGTAGCCGTATCGGAAGTGGG	1505
QY	1515	CTGATCA 1522	
Db	1506	CTGATCA 1513	
RESULT 2			
US-10-793-568A-42			
Sequence 42, Application US/10793568A			
Publication No. US20050250192A1			
GENERAL INFORMATION:			
APPLICANT: Shanmugam, Keelinathan T.			
APPLICANT: Ingram, Lonnie O'Neal			
APPLICANT: Patel, Mbind A.			
APPLICANT: Ou, Mark S.			
APPLICANT: Habricker, Roberta			
TITLE OF INVENTION: Production of Chemicals From Lignocellulose			
FILE REFERENCE: UF-410			
CURRENT APPLICATION NUMBER: US/10/793,568A			
NUMBER OF SEQ ID NOS: 44			
SOFTWARE: PatentIn version 3.2			
SEQ ID NO 42			
LENGTH: 1548			
TYPE: DNA			
ORGANISM: Bacillus			
FEATURE:			
NAME/KEY: misc_feature			
LOCATION: (1)..(1548)			
OTHER INFORMATION: Bacillus isolate P4-102B			
FEATURE:			
NAME/KEY: misc_feature			
LOCATION: (1)..(1548)			
OTHER INFORMATION: 1548 bp DNA fragment encoding 16S rRNA molecule			
US-10-793-568A-42			
Query Match 55.6%; Score 848.2; DB 6; Length 1548;			
Best Local Similarity 75.6%; Pred. No. 1.8e-264;			
Matches 1145; Conservative 0; Mismatches 351; Indels 18; Gaps 7;			
QY	30	GGCGGAGGCTTAACACATGCAAGTCGACGGGAAACATGATAGCTTGCTATTAGCGCTC	89
Db	30	GGCGGCGCTGCTTAATACATGCAAGTCGCGGACCTTTTAAAGCTTGCTTTTAAAGGT	89
QY	90	GAGNGGCGGACGGGTAGTAATACCTTAAGAACTACCTAGTGTGGGGGTATAGCTGGG	149
Db	90	TAGGGGCGGACGGGTAGTAATACCTGAGGTAACTGCTGTAAAGATCGGGATTAACGGCG	149
QY	150	GAACCTGGAATTATACCGGATA-----CGTCTAGGGGAGAAAGCAGGGGNTCAT	199
Db	150	GAACCGGGCGGTATATACCGGATAGTTTCTTCGCGATGGAGAAAAGAAAGACGGC	209
QY	200	TAGACTTGGCGCTATTAGATGAGCTTAAGTGCATTAGCTAGATGTGGGGTTAAAGCCT	259
Db	210	TTGCGGTGTCACTTACAGATGAGGCCCGCGGCGCATTAGCTAGTTGGTGGGTATGCTC	269
QY	260	ACCATGGCGACGATCTGTAGCTGTTGAGAGAGATATCAAGCCACACCGGGACTGAACA	319
Db	270	ACCAAGGCAACGATCGCTAGCCGACCTGAGAGGGGTATGGCCCATTTGGGACTGAACA	329

QY 320 CCGCCCGACT-CTAGGGAGGAGAGAGTGGGAAATTGACAAATGNGGGAACCTTGA 378
DB 330 CCGCCCAAATCTCTTAGGGAGGAGAGTGGAAATCTTCGCAATGAGCAAGAAATGCTTA 389
QY 379 TCAGCATGCGCGGTGTGTAAGAAAGCCTTTGGTTGTAAGCACTTTAAGCACTGAA 438
DB 390 CCGAGCAACGCCCGGTGAGTGAAGAAAGCCTTCGGGTCTGTAATCTGTGTCCGGGAA 449
QY 439 GAAGACTTTCGT-TAATACCCGGGAGCATGACATTAAGTCAGAAATTAAGCACCGGCT 497
DB 450 GAACAAGTCCGCTTCGAATAGGCGCGCCTTGACGGTACCCGACGAAGGCCACGGCT 509
QY 498 AACTGTGTCCAGACCCCGGTAAATACAGAGGTGCAAGCCGTTAATCGAAATTAAGTGG 557
DB 510 AACTAGTGTCCAGACCCCGGTAAATACAGAGGTGCAAGCCGTTGTCGGAATTAATGG 569
QY 558 CGTAAAGCAGCGTAGGTGCTGATTAAGTCAAGTGAATCCCGGGCTTAACCTGG 617
DB 570 CGTAAAGCAGCGTAGGTGCTGATTAAGTCAAGTGAATCCCGGGCTTAACCTGG 629
QY 618 AACTGCTGAACTGTAAGCTTAAAGTGAAGTGAAGGAGGAAATTAAGTGAAGTGA 677
DB 630 GTGTGCTTGAAGAACTGGAGGCTTGAAGTGAAGGAGGAGTGAATTCACAGTGA 689
QY 678 CCGTGAATGCGGTGAAGATCTGAAGGAAATCCAGTGGCCAGGACCTTCTCGCATCAT 737
DB 690 CCGTGAATGCGGTGAAGATCTGAAGGAAATCCAGTGGCCAGGACCTTCTCGGTCTGA 749
QY 738 ACTGACACTGAGGCTGAAAGCGTGGGTAGCAACAGATTAATGATCCCTGATGTCAC 797
DB 750 ACTGACACTGAGGCTGAAAGCGTGGGTAGCAACAGATTAATGATCCCTGATGTCAC 809
QY 798 GCCGTAAACGATGCTTAAGTGTGGGTCCCTTGAAGAC-TTAAAGCAGCAGTAAAC 856
DB 810 GCCGTAAACGATGCTTAAGTGTGGGTCCCTTGAAGAC-TTAAAGCAGCAGTAAAC 869
QY 857 CAATTAAGTGAAGCGCTGGGAGTGAAGCGCCGAAGTTAAATCAATTAATTAAGCGG 916
DB 870 CAATTAAGTGAAGCGCTGGGAGTGAAGCGCCGAAGTTAAATCAATTAATTAAGCGG 929
QY 917 GGGCCGCAAGAGGAGTGAAGTGGTTAATTCGATGCAAGCGCAAGAACTTACGTC 976
DB 930 GGGCCGCAAGAGGAGTGAAGTGGTTAATTCGATGCAAGCGCAAGAACTTACGTC 989
QY 977 GTCTTGAATACACAGATCTTGTAGAGATACAGAGTGC--TTCCGGAATTTGTATAC 1034
DB 990 GTCTTGAATACACAGATCTTGTAGAGATACAGAGTGC--TTCCGGAATTTGTATAC 1049
QY 1035 AGGTGCTGATGCTGTGCTGAGCTGCTGTGAGATGTTGGGTTAAGTCCGCAACGA 1094
DB 1050 AGGTGCTGATGCTGTGCTGAGCTGCTGTGAGATGTTGGGTTAAGTCCGCAACGA 1109
QY 1095 GGGCAACCCCTTGTAGTACAGACCTTCGGGTGGGAACTTAAGATTAAGTCCGACGT 1154
DB 1110 GGGCAACCCCTTGTAGTACAGACCTTCGGGTGGGAACTTAAGATTAAGTCCGACGT 1168
QY 1155 GACAACTGAGAGAGCGGGGAGAGAGTCAAGTCAATGAGCTTACAGCAAGGCTTA 1214
DB 1169 GACAACTGAGAGAGCGGGGAGAGAGTCAATGAGCTTACAGCAAGGCTTACAGCA 1228
QY 1215 CACACGTGCTACATGATGATGATACAGAGGAGCTACACAGCGATGATGCGAATTC 1274
DB 1229 CACACGTGCTACATGATGATGATACAGAGGAGCTGAGAACCGCGAGTTAAGCCATTC 1288
QY 1275 AAAAGCTATCGATGCTACATGATGATGATGATGATGATGATGATGATGATGAT 1334
DB 1289 GAAAACCATTCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1348
QY 1335 AGTAATGCGGATCAGAAATGCGGAGTGAATACGTTCCCGGAGCTTGTACACACCGCG 1394
DB 1349 AGTAATGCGGATCAGAAATGCGGAGTGAATACGTTCCCGGAGCTTGTACACACCGCG 1408

QY 1395 TCACACCATGAGAGTGTATGACACAGAGTGTAGCTTAAC--TTAGTGAAGGCGATC 1452
DB 1409 TCACACCATGAGAGTGTATGACACCGAAGTGGTGAAGTAACTTTAAGAGCCAGCCG 1468
QY 1453 ACCACGTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1512
DB 1469 CCGAAGTGGGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1528
QY 1513 GGCTGATCACTC 1526
DB 1529 GGCTGATCACTC 1542

RESULT 3
US-11-055-637-69
; Sequence 69, Application US/11055637
; Publication No. US20050260619A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055,637
; PRIOR FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 1486
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-69

Query Match 55.5%; Score 847.6; DB 7; Length 1486;
Best Local Similarity 76.1%; Pred. No. 2,8e-264;
Matches 1124; Conservative 0; Mismatches 337; Indels 16; Gaps 6;

QY 30 GGGCGGAGCTTAACATGCAAGTGAAGCGGAAAGATGATGCTTGTCTAATTAAGCGTC 89
DB 11 GGGCGGAGCTTAACATGCAAGTGAAGCGGAAAGATGATGCTTGTCTAATTAAGCGTC 70
QY 90 GAGCGCCGAGCGGAGTGAATTAATTAAGTGAATCTTAAGTGAAGTGAAGTGAAGTGA 149
DB 71 TACCGCGGAGCGGAGTGAATTAATTAAGTGAATCTTAAGTGAAGTGAAGTGAAGTGA 130
QY 150 GAAATCGAATTAATACCGCAT-----ACGTCTACGGGAGAAAGCAGGGAGTCAAT 199
DB 131 GAAATCGGAGCTTAATACCGCATTAATTAAGTGAATCTTAAGTGAAGTGAAGTGAAGTGA 190
QY 200 TAGACCTTGGCTTAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 259
DB 191 TTAGCGCTGCTAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 250
QY 260 ACCATGCGAGCGATGCTGATGCTGCTGATGAGAGATGATGAGCAGCAGCGGAGTGAAGCA 319
DB 251 ACCATGCGAGCGATGCTGATGCTGCTGATGAGAGATGATGAGCAGCAGCGGAGTGAAGCA 310
QY 320 CCGCCCGGACT-CTAGGGAGGAGAGTGGGAAATTTGACAAATGNGGGAACCTTGA 378
DB 311 CCGCCCGGACTCTTAGGGAGGAGAGTGGGAAATTTTCCGCAATGAGCAAGAAATGCTGA 370
QY 379 TCAGCATGCGCGGTGTGTAAGAAAGCCTTTGGTTGTAAGCACTTTAAGCACTGAA 438
DB 371 CCGAGCAACGCCCGGTGAGTGAAGAAAGCCTTTCGGGTCTGTAATCTGTGTGGGAA 430
QY 439 GAA- GACTTTCGGTTAATACCCGGGAGCATGATCACTAGCTCAAGAAATTAAGCACCGGCT 497

260 ACCATGCGGACGATCTGTAGCTGTCTGAGGATGATCAGCCACACCGGAGCTGAGACA 319
274 ACCAAGGACGACATGCGTATGCGACCTGAGAGGATGATGCGCACATTGGAGCTGAGACA 333
320 CGGCCCCGAGCT-CTACGAGGAGGACGAGTGGGAAATATTGACAAATGNGGGAAACCTTGA 378
334 CGGCCCCAACTCTTACGAGGAGGACGAGTGGGAAATCTTCCGAAATGACGAAAGTCTGA 393
379 TCCAGCCATCGCGCTGTGTGTAAGAAAGCCTTTTGGTTTGAAGACCTTTAAAGCTGAA 438
394 CGGACCAACGCGCGCTGAGTGAAGAAAGCCTTCCGAGTCTGTAAGAACTCTTTCGCGGGAA 453
439 GAAAGCTCTTGGGT-TAATACCGGGAGAGTACATTAGCTGCGAATTAAGACCGGCT 497
454 GAAACAAGTCCGCTTCAACAGGCGCGCTTGAACGCTACCGGCGCAAGAGCACGCGCT 513
498 AACTGTGTCGACGACCGCGGTAAATACAGAGGAGTCAAGCCTTAATCCGAAATTACTGGG 557
514 AACTAGTGTCCAGACGACCGCGGTAAATACGATGTCGCAAGCCTTTCGGAATTAATTGGG 573
558 CGTAAAGCAGCGTAGTGGCTTGAATAGTCAAGTGAATCCCGGCTTAACCTGGG 617
574 CGTAAAGCAGCGTAGTGGCTTGAATAGTGAATCTTCCGCTCAACCGCAA 633
618 AACTGATCTGAACTGTGTAAGCTTAAGTGAAGTGAAGGAGTGAATTTTCAGGTGTA 677
634 GCGGTATTTGAAACTGAGGAGCTTGAAGTGAAGGAGTGAAGTGAATTTCCAGGTGTA 693
678 CGGTAAATGCGTAGAGATCTGAAAGGATACCGATGGCGAAGCAGCTTCTGCGATCAT 737
694 CGGTAAATGCGTAGAGATCTGAAAGGATACCGATGGCGAAGCAGCTTCTGCGATCAT 753
738 ACTGACACTGAGGCTCGAAAGCCTGGGTAGCAACAGATTAAGTACCTGTAGTCCAC 797
754 ACTGACGCTGAGGCGGAAAGCCTGGGTAGCAACAGATTAAGTACCTGTAGTCCAC 813
798 GCGGTAAAGGATCTGATAGTGTGGTCCCTTGAAGAC-TTATGACGCGAGCTTAAG 856
814 GCGGTAAAGGATCTGATAGTGTGGTCCCTTGAAGAC-TTATGACGCGAGCTTAAG 873
857 CAATAGTAGACCGCTGGGAGTACGCGCGCAAGGTTAAATCTCAATGAATTTGACGGG 916
874 CATTAAGCACTCCGCTGGGAGTACGCGCGCAAGGTTAAATCTCAATGAATTTGACGGG 933
917 GCGCGCACAAAGCGGTGAGCATGTGGTTAATTCATGCAACGCGAAGAACTTACCTG 976
934 GCGCGCACAAAGCGGTGAGCATGTGGTTAATTCATGCAACGCGAAGAACTTACCTG 993
977 GTTTGACATACACAGAACTTTGTAGATACAGAGATGCC-TTGGGAAATTTGTATAC 1034
994 GTCTTACATCTCTGACCTCCCTGGAGACAGGCGCTTCCCTTCCGCGGAGACAGATGAC 1053
1035 AGGTGTCGATGCGTGTGCTGAGTGTGCTGAGATGTTGGATTAAAGTCCCGCAACGA 1094
1054 AGGTGTCGATGCGTGTGCTGAGTGTGCTGAGATGTTGGATTAAAGTCCCGCAACGA 1113
1095 GCGCAACCTTGTCTTGTAGTACGACACTTCCGCGTGGAACTTAAGATTAAGTCCAGT 1154
1114 GCGCAACCTTGTCTTGTAGTACGACACTTCCGCGTGGAACTTAAGATTAAGTCCAGT 1172
1155 GACAAACTGAGAGAGCGCGGAGACAGTCAAGTCAATGAGCCCTTAAGCAACGAGGCTA 1214
1173 GACAAACTGAGAGAGCGCGGAGACAGTCAATGAGCCCTTAAGCAACGAGGCTA 1232
1215 CACACGTCATCAATGATAGTACAGAGGAGCTACAGAGGATGATGATGCGAATGCA 1274
1233 CACACGTCATCAATGATAGTACAGAGGAGCTACAGAGGATGATGATGCGAATGCA 1292
1275 AAAAGCTATCTGATGTCAGATTTGAGTCTGCACTGCACTCCATGAAAGTGAATGCT 1334
1293 GAAAGCAATTTCCAGTTCCGATTTGCAAGCTGCAACCGGCTGCAATGAAGCGGAATGCT 1352
1335 AGTAATCGCGGATCAGAATGCGCGGTGAATACGTTCCCGGAGCTTGTACACACCGCGC 1394

1353 AGTAATCGCGGATCAGAATGCGCGGTGAATACGTTCCCGGAGCTTGTACACACCGCGC 1412
1395 TCACACCATGAGAGTGTGATTTGACACAGAAAGTGTAGCTTAAC-TTATGAGGGGATC 1452
1413 TCACACCATGAGAGTGTGATTTGACACAGAAAGTGTGAGGTAACTTTAAGGAGCCAGCG 1472
1453 ACCAGGTGTGTCATGATCTGAGGAGTGAAGTGTGAACAGTACCGTACGAGGAACTGTC 1512
1473 CCGAAGGTGTGACAGATGATTTGGGTGAAGTGTGAACAGTACCGTATCGGAAGTGC 1532
1513 GCGTGTACCTTC 1526
1533 GGTGATCACTC 1546

RESULT 5
US-10-793-568a-41
Sequence 41, Application US/10793568A
Publication No. US20050250192A1
GENERAL INFORMATION:
APPLICANT: Shanmugam, Keelnathan T.
APPLICANT: Ingram, Lonnie O'Neal
APPLICANT: Patel, Milind A.
APPLICANT: Ou, Mark S.
APPLICANT: Harbucker, Roberta
TITLE OF INVENTION: Production of Chemicals From Lignocellulose
FILE REFERENCE: US-410
CURRENT APPLICATION NUMBER: US/10/793,568A
CURRENT FILING DATE: 2004-03-04
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn version 3.2
SEQ ID NO 41
LENGTH: 1548
TYPE: DNA
ORGANISM: Bacillus
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(1548)
OTHER INFORMATION: 1548 bp DNA fragment encoding 16S rRNA molecule
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(1548)
OTHER INFORMATION: Bacillus isolate 36D1
US-10-793-568a-41

Query Match 55.2%; Score 841.8; DB 6; Length 1548;
Best Local Similarity 75.4%; Pred. No. 2.1e-262;
Matches 1141; Conservative 0; Mismatches 355; Indels 18; Gaps 7;

30 GCGCGAGCGCTTAACATGCAATGCAAGTGCAGCGGAAAGATGATAGCTTGTCTTAAGCGCTC 89
30 GCGCGAGCGCTTAACATGCAATGCAAGTGCAGCGGAAAGATGATAGCTTGTCTTAAGCGCTC 89
90 GACGCGCGGAGCGGTGAGTAACTTAGGAATCTAAGTGTGGGAGTACGCTCGG 149
90 TACGCGCGGAGCGGTGAGTAACTTAGGAATCTAAGTGTGGGAGTACGCTCGG 149
150 GAACTCGAATTAATACCGCAT------CGTCTACGAGAGAAAGCAGGAGTCAAT 199
150 GAACTCGAATTAATACCGCAT------CGTCTACGAGAGAAAGCAGGAGTCAAT 199
200 TAGACCTTGGCTTAATGATGAGCTTAAGTTCGATTAAGTGTGGGAGTAAAGCGCT 259
210 TTTTGTGTCACTTAAGATGAGGCGCGCGCGCATTAAGTGTGGGAGTAAAGCGCTC 269
260 ACCATGGCGAGTCTGTGATGCTGTGATGAGAGATGATGAGGAGTACGAGCAACGAGGAGTGA 319
270 ACCAAGCAAGTGTGATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 329
320 CGGCCCCGAGCT-CTACGAGGAGGACGAGTGGGAAATTGGAACAAATGNGGGAAACCTTGA 378
330 CGGCCCCAACTCTTACGAGGAGGACGAGTGGGAAATCTTCCGAAATGACGAAAGTCTGA 389

```
QY 379 TCACGATCGCGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 438
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 390 CGGAGCAAGCCCGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 449
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 439 GAAGACTTTCGGT-TAATACCCGGGACGATGACATTAAGTTCGCAATTAAGCAGGCT 497
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 450 GAACAAGTCCGTTCCAGACAGGCGCGCTTGAACGGTACCGGCCAGAAACGACGCGCT 509
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 498 AACTCTGTCCAGCCCGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 557
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 510 AACTCTGTCCAGCCCGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 569
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 558 CGTAAAGCAGCGTGTGTAAGTTCGATGTAAGTTCGCAATTAAGCAGGCT 617
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 570 CGTAAAGCAGCGCGCGGCTTTCTTAAGTTCGATGTAAGTTCGCAATTAAGCAGGCT 629
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 618 AACTGATGTAAACTGTTAGGCTAGATGATGAGAGGAAATTTAGGCTAG 677
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 630 GCGGTATGTAAACTGTTAGGCTAGATGATGAGAGGAAATTTAGGCTAG 689
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 678 CGGTAAAGCAGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 737
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 690 CGGTAAAGCAGCGTGTGTAAGAGCCCTTTGTTGTAAGACATTAAAGCAGTGA 749
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 738 ACTGACACTGAGGCTGCAAGCGTGTGTAAGTTCGATGTAAGTTCGCAATTAAGCAGGCT 797
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 750 ACTGACGCTGAGGCGCGGAAAGCTGTGAGCAAAACGATTAAGTTCGCAATTAAGCAGGCT 809
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 798 GCGGTAAAGCAGTGTCTACTAGTGTGCTGCTTGAAGAC-TTATGACGAGCTAG 856
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 810 GCGGTAAAGCAGTGTCTACTAGTGTGCTGCTTGAAGAC-TTATGACGAGCTAG 869
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 857 CAATAAGTACCGCGCTGTGAGTACGCGCAAGTTAACTCAATTAAGTTCGCAATTAAGCAGGCT 916
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 870 CAATAAGCAGTGTCTACTAGTGTGCTGCTTGAAGAC-TTATGACGAGCTAG 929
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 917 GCGCGCAAGCGTGTGAGCAGTGTGTTAACTTCGATCAACGCAAGCTTACCTG 976
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 930 GCGCGCAAGCGTGTGAGCAGTGTGTTAACTTCGATCAACGCAAGCTTACCTG 989
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 977 GTCTTGACATACACAGATCTTGTAGATACGAGAGTCC--TTGCGGAATTGTGATAC 1034
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 990 GTCTTGACATCTCTGACCTCCCTGAGACAGGCGCTTCCCTTGGGGAGACGAGTAC 1049
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1035 AAGTGTGTGATGGCTGTCTGACGCTGTGTGAGATGTTGGGTTAACTCCCGCAACGA 1094
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1050 AAGTGTGTGATGGCTGTCTGACGCTGTGTGAGATGTTGGGTTAACTCCCGCAACGA 1109
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1095 GCGCAACCTTGTCTTAACTTACACAGCTTGGGGAGGACTTAAAGGATCTGCGCAGT 1154
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1110 GCGCAACCTTGTCTTAACTTACACAGCTTGGGGAGGACTTAAAGGATCTGCGCAGT 1168
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1155 GACAAACCTGAGAGAGCGGGAGACGAGTCAATCATATGAGCTTAAAGCAGGCT 1214
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1169 GACAAACCTGAGAGAGCGGGAGACGAGTCAATCATATGAGCTTAAAGCAGGCT 1228
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1215 CACAGTGTGTAAGTGTAGTACAGAGGCGAGCTACAGAGATGTAAGTGAATCTTA 1274
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1229 CACAGTGTGTAAGTGTAGTACAGAGGCGAGCTACAGAGATGTAAGTGAATCTTA 1288
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1275 AAAAGCTTGTAGTGTGAGTGTGCACTGCACTCATGAAATGAAGATCGT 1334
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1289 GAAAACCATTTCCAGTTCCGATTTGACAGGCTGCAACCCGCTGATGAAACCGGAATCGT 1348
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1335 AATTAATCGGAGTACAGATGCGCGGTGAATAGTTCCGGGCTTGTACACACCGCCG 1394
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1349 AATTAATCGGAGTACAGATGCGCGGTGAATAGTTCCGGGCTTGTACACACCGCCG 1408
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1395 TACACCATGAGATGTAAGTTCACACAGAGTGTAGCTTAAC--TTATGAGAGCGATC 1452
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1409 TACACCATGAGATGTAAGTTCACACAGAGTGTAGCTTAAC--TTATGAGAGCGATC 1468
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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QY 1453 ACCAGTGTGTGATGATGAGGCTGTAAGTCAAGAGTACCGTGAAGGAACTTC 1512
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1469 CCGAAGGTGTGACATGATTTGGGTGAAGTGTAAACAAGATAGCGGTATCGGAAGTTC 1528
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1513 GCGTGATCACCCTC 1526
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1529 GCGTGATCACCCTC 1542
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 6
US-11-055-637-78
; Sequence 78, Application US-11055637
; Publication No. US2005026019A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055,637
; PRIOR FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 1507
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-78

Query Match      55.1%; Score 840.4; DB 7; Length 1507;
Best Local Similarity 77.1%; Pred. No. 6e-262;
Matches 114; Conservative 0; Mismatches 31; Indels 17; Gaps 7;

QY 95 GCGGACGCGTGTGATTAATCTTAAG-AACTCACTAGTGTGGGATAGCTCGGGGAAA 153
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 65 GCGGACGCGTGTGATTAATCTTAAG-AACTCACTAGTGTGGGATAGCTCGGGGAAA 124
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 154 CTCGAATTAATACCGCATACGCTACGCGGAGAAACAGAGGATCTTAAG----- 203
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 125 CCGGAGCTTAATCCGATATGTTCTTCTGCAATGAGAAAGATGAAAGCGTCTCG 184
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 204 CTTGCGCTAATTAAGTACGCTTAAGTTCGATTAAGTGTGGGATTAAGGCTTACCA 263
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 185 GCTGTCACTTAATGATGAGGCGCGCGCCGCTTAAGTGTGTGAGTAAAGCTACCA 244
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 264 TGGGACGATCTGATGCTGTGTGAGAGATGATACCAACCGGACTGAGACACGCGC 323
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 245 AGGCAACGATGTGTGCGGACCTGAGAGGATGCGCACACTGGGACTGAGACACGCGC 304
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 324 CCGGACT-CTACGGGAGGACAGAGGAGGAAATATGCAATGAGGGAACCTGATCA 382
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 305 CCGGACTCTTACGGGAGGACAGAGGAGGAAATCTTCCGCAATGAGCGAAAGTCTGACGA 364
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 383 GCCATGCGCGGTGTGTAAGAGGCTTTTGGTTGTAAGCACTTAAAGCAGTGAAG 442
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 365 GCAAGCGCGGTGAACGATGAAGGCTTTCCGGTGTAAAGTCTTGTGTGAGGAAGAAC 424
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 443 ACTCTTGTGTAATACCGGGGACGATGACATTAAGTCAAGATTAAGCAGGCTTACCTC 502
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 425 AAGTACAGAGTAACTGTGTAACCTTACGAGTAACTTAACGAAAGCAGCGCTAACCTA 484
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 503 TGTGCAACGACCGGGGTAAATTAAGAGGCTGCAAGCTTAACTGGAATTAAGTGTGAGGCTTAA 562
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 485 GGTGCAACGACCGGGGTAAATTAAGAGGCTGCAAGCTTAACTGGAATTAAGTGTGAGGCTTAA 544
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 563 AGCGAGCTAGGTGCTGATTAAGTCAAGTGAATCCCGGGCTTAACTGGAACCTG 622
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      545 |ACCGCGCGAGGTGTTCTTAAAGTGTGAAAGCCCGCGCTCAACCGGAGGGT| 604
Qy      623 |CATCTGAACTGTAGCTAGATGAGTGAAGGAAAGTAAATTCAGTGTAGCGGTG| 682
Db      605 |CATTTGAAACTGGGAACTTGAATGTAAGAAAGGAAAGTGAATTCAGTGTAGCGGTG| 664
Qy      683 |AAATGCTGAGATCTGAAGGAATACCAATGCGGAAAGGCAAGCTTCTGGCATATCTGA| 742
Db      665 |AAATGCTGAGATGTAAGGAAACACCAATGCGGAAAGGCAAGCTTCTGGCATATCTGA| 724
Qy      743 |CACTGAGCTCGAAAGCGTGGTGAAGAAACAGATTAAGTACCTGCTAGTCCAGCCGT| 802
Db      725 |CACTGAGCGCGAAAGCGTGGGAGCAACAGATTAAGTACCTGCTAGTCCAGCCGT| 784
Qy      803 |AAACGATGTCTACTAGTCTGTGGGTCTTGAAGAC-TTATGATCGCAGCTAAACGCAAT| 861
Db      785 |AAACGATGTGTATGTTAGAGGTTTCGCTTAACTGCTGACATTAACGCAAT| 844
Qy      862 |AGTAGACCGCTGGGAGTACGCGCGCAAGTTAAATCTCAATGAAATGACGCGGCGCC| 921
Db      845 |AGACATCCGCTGGGAGTACGCGCGCAAGTTAAATCTCAATGAAATGACGCGGCGCC| 904
Qy      922 |GCAAGACCGGTGAGATGAGTGTAAATTCGATGCAACGCGAAGAACTTAACTGCTT| 981
Db      905 |GCAAGACCGGTGAGATGAGTGTAAATTCGATGCAACGCGAAGAACTTAACTGCTT| 964
Qy      982 |GACATACACAGAACTTGTAGATACGAGATGCC--TTCCGGAATTGTATACAGGTG| 1039
Db      965 |GACATCTCTGACACTCTTAAGATAGACGTTCCCTTCGCGGGAACAGATACAGGTG| 1024
Qy      1040 |CTGATGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG| 1099
Db      1025 |GTGATGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG| 1084
Qy      1100 |ACCTTGTCTTAACTGTAACGACGCTTCCGCGTGGAACTTAAGATTAAGCTGCTGCA| 1159
Db      1085 |ACCTTGTCTTAACTGTAACGACGCTTCCGCGTGGAACTTAAGATTAAGCTGCTGCA| 1143
Qy      1160 |ACTGAGAAAGCGCGGAGCAGCTCAAGTCAATGATGCTGCTTACGACGAGGCTGAC| 1219
Db      1144 |ACCGAGAAAGCGCGGAGTACGCTCAATGATGATGCTGCTTATGACGCTGCTGCTG| 1203
Qy      1220 |GTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1279
Db      1204 |GTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1263
Qy      1280 |CTATGCTGATCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1339
Db      1264 |CTATGCTGATCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1323
Qy      1340 |TCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1399
Db      1324 |TCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1383
Qy      1400 |CCATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1458
Db      1384 |CCATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1443
Qy      1459 |GTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1518
Db      1444 |GTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG| 1503
Qy      1519 |ATCA 1522|
Db      1504 |ATCA 1507|
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```
RESULT 7
US-11-055-637-66
; Sequence 66, Application US/11055637
; Publication No. US20050260619A1
; GENERAL INFORMATION:
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; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055,637
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 66
; LENGTH: 1545
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-66

Query Match      55.0%; Score 839.2; DB 7; Length 1545;
Best Local Similarity 76.1%; Pred. No. 1.5e-261;
Matches 1152; Conservative 0; Mismatches 341; Indels 20; Gaps 9;

Qy      30 |GGCGGAGGCTTAACATGATGAGTACCGGAAACGATGATGCTTATTAAGCGCTC| 89
Db      31 |GGCGGAGGCTTAACATGATGAGTACCGGAAACGATGATGCTTATTAAGCGCTC| 89
Qy      90 |GAGCGCGGAGGAGTAAATTAATTAAGTAACTAATTAAGTAACTAATTAAGTAA| 148
Db      90 |--AGCGCGGAGGAGTAAATTAATTAAGTAACTAATTAAGTAACTAATTAAGTAA| 147
Qy      149 |GGAATCTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA| 197
Db      148 |GGAATCTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA| 207
Qy      198 |ATTAGACCTTGGCTATTAGATGAGCTTAATGCTGATTAATGATGATGATGATG| 257
Db      208 |CTTTTATGATCACTTAATGATGAGTAACTGCGGCGCTTAATGATGATGATGATG| 267
Qy      258 |CTAAGTGGGAGGATCTGATGCTGATGAGATGATGATGATGATGATGATGATGATG| 317
Db      268 |TCACCAAGGAGGAGTACGATGATGATGATGATGATGATGATGATGATGATGATG| 327
Qy      318 |CAGCGCCCGGAGCT-CTACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG| 376
Db      328 |CAGCGCCCGGAGCTCTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG| 387
Qy      377 |GATCAAGCAATGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATG| 436
Db      388 |GACGAGCAACCGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATG| 447
Qy      437 |AAGAATCTTCTGCT-ATAATCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG| 495
Db      448 |AAGAATCTTCTGCT-ATAATCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG| 507
Qy      496 |CTAATCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG| 555
Db      508 |CTAATCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG| 567
Qy      556 |GCGGTAAGCGAGCGATGATGATGATGATGATGATGATGATGATGATGATGATG| 615
Db      568 |GCGGTAAGCGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG| 627
Qy      616 |GGAATCTGATCTGAATCTGATGATGATGATGATGATGATGATGATGATGATGAT| 675
Db      628 |GAGGCTCATTTGAAACTGGGGAATTTGATGATGATGATGATGATGATGATGATGAT| 687
Qy      676 |AGCGGTGAATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG| 735
Db      688 |AGCGGTGAATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG| 747
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OY	736	ATACTGACACTGAGCGCTCGAAAAGCGTGGGTAGAGAAAACAGGATTAAGTATACCTGGTATGCC	795
Db	748	TAACTGACGCTGAGGCCCGAAAAGCGTGGGAGCAAGCAAGATTAAGTATACCTGGTATGCC	807
OY	796	ACGCGCTTAAACGATGTCTACTAGTCGTTGGGTCCCTTGAAGAC-TTAGTGACGCAAGCTTAA	854
Db	808	ACGCGCTTAAACGATGAATGCTTAAGTGTTAAGAGGGATTTCCGCCCTTATAGTGTGCAAGCAA	867
OY	855	CGCAATAAGTAGACCCGCTGGGAGGTACGGCCCGCAAGGTTAAATCTCAATAATGAATTGACG	914
Db	868	CGCAATTAGACCTCCGCTGGGAGTAGCGTCCCAAGACTGAAAACCTCAAGGAATTGACG	927
OY	915	GGGGCCCGGCACAACGGGTGAGCATGTGTGTTTAATTCGATGACACCGCAAGAACCTTACC	974
Db	928	GGGGCCCGGCACAACGGGTGAGCATGTGTGTTTAATTCGAAAGCACCGCAAGAACCTTACC	987
OY	975	TGCTCTTGACATACAGAAATCTTTAGAGATACGAGAGTGCCTTGGGAAATTGTGATAC	1034
Db	988	AGGCTTTGACATCTCTTGACAAACCCCTAGATATAGGGCTTCCCTTGGGGGCGAGATGAC	1047
OY	1035	AGGTGTGTCATATGGCTGTCTGACGTCGTCTGTCTGTGAGATGTTGGGTTAAATGCCGCAACGA	1094
Db	1048	AGGTGTGTCATATGGCTGTCTGACGTCGTCTGTCTGTGAGATGTTGGGTTAAATGCCGCAACGA	1107
OY	1095	GCAGCAACCTTGTCTTATAGTTAACGACACTTCGGGTTGGGAACTCTAAGGATATCTGCCAGT	1154
Db	1108	GCAGCAACCTTGTATCTTATAGTTAACGACACTTCGGGTTGGGAACTCTAAGGATATCTGCCAGT	1166
OY	1155	GACAAACTGAGAGAGCGGGGACGACGTCAGTCAATCATATGCGCTTACGACCAAGGCTTA	1214
Db	1167	GACAAACCGGAGAGAGTGGGGATGACGTCAAAATCATATGCGCTTATGACCTGGGCTTA	1226
OY	1215	CACACGTGTCAATATGATAGGTACAGAGGGGACACTACACAGCATGTGATGGCAATCTCA	1274
Db	1227	CACACGTGTCAATATGATAGGTACAGAGGGGACAGAACCGCGAGGCTTAAGCCAAATCCCA	1286
OY	1275	AAAAGCCTTATCGTAGTCAGATTGGAGTCTGCAACTGCACTCCATGAAATAGAGAAATCGCT	1334
Db	1287	CAATCTGTCTCTAGTTCCGATTCGACATCTGCAAACTGACATGTGTTAACTGGAAATCGCT	1346
OY	1335	AGTATATGCGGATCAGAAATGCGCGGTGAATACGTTCCGGGCTTGTACACACCGGCCG	1394
Db	1347	AGTATATGCGGATCAGATGCGCGGTGAATACGTTCCCGGCTTGTACACACCGGCCG	1406
OY	1395	TCACACCATGGGATGTATGTGACACCAAGT-GGTTAGCTTAAGTAGAGGGGAGTCA	1453
Db	1407	TCACACCATGGGATGTGTGTAACACCCGAAAGTCGGTGAAGTAACTTTTGAAGCAGCGCG	1466
OY	1454	CCACGCTGTGATCGATGACTGGGGTGAAGTCGTAAACAAGGTAGCCGTAGAGGAACTGTG	1513
Db	1467	CGAAGGTGGGACAAATGATTTGGGGTGAAGTCGTAAACAAGGTAGCCGTATCGGAAGTGTG	1526
OY	1514	GCTGATCACCCTC	1526
Db	1527	GCTGATCACCCTC	1539

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; PRIOR APPLICATION NUMBER: US 60/543,288
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 1535
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-74

Query Match      53.9%; Score 822.2; DB 75; Length 1535;
Match Local Similarity 76.6%; Pred. No. 4.7e-256;
Matches 1138; Conservative 0; Mismatches 326; Indels 22; Gaps 10

Dy      30  GCGCGCAGGCTTAAACACATGCAAGTCGAGCGGAACGATGATAGCTTGCTTAAAGCCCTC 89
      |||||
Dy      31  GCGCGCGTGCCTTAATACATGCAATCTGAGC-GAATGATGGAGCTTGCTCCAGAAAT- 88
      |||||
Dy      90  GAGCGCCGAGCGGGTGAATTAATCTTAGG-AAATACCTAGTAGTGGGGATAGCTCGG 148
      |||||
Dy      89  -TAGCGCGGAGCGGGTGAATTAACAGTGGGCAACCTTAGACTGAGATTAATCTCG 147
      |||||
Dy      149  GGAATCTGAAATTAATACCGGATA-----CGCTAACGGGAGAAAGCAAGG--GNTCA 198
      |||||
Dy      148  GGAACCGGACTAATACCGGATTAATCTTCTTCTCTCGAGAAAGTTGAAGACGG 207
      |||||
Dy      199  TTAAACCTTGGCGCTAATTAAGATGACCTTAATGCGATTAAGTATGATGCGGGTAAAGCC 258
      |||||
Dy      208  CTTGGCGCTGTACTTTACAGATGGGCGCGCGGCGCATTAAGTATGGTGAAGTAAAGGCT 267
      |||||
Dy      259  TACCATGGCGACGATCTGTAGCTGTGTGAGAGATGATCAAGCAACCGGACTGAGAC 318
      |||||
Dy      268  CACCAAGGCAACGATGCGTAGCCGACCTGAGAGGGTGAATCGGCACACTGGGACTGAGAC 327
      |||||
Dy      319  ACGGCGCGGAGCT-CTACGGGAGGAGCAGCATGGGGAAATTGAGCAATGGNGGAAACCTG 377
      |||||
Dy      328  ACGGCGGAGCTCTTACGGGAGGAGCAGATAGGGAATCTTCGCAATTAAGCAAGAAAGTGTG 387
      |||||
Dy      378  ATTCAGCCATGCGCGCTGTGTGAAGAAAGGCGCTTTGTGTGAAGACATTTAAAGCAGTGA 437
      |||||
Dy      388  ACGGAGCAGCGCGCGGTGAGTGAAGAGTTTTCGATCGTAAATCTGTATACAGGA 447
      |||||
Dy      438  AGAAGACTCTTCCGTTAATACCCGAGGACGATGACATTAAGTCGAGAAATGAACACCGGCT 497
      |||||
Dy      448  AGAACAGATACGGAATTAATGCGCGGATCCTTGAACGGTACCTGACAGAAAGCAGCGCT 507
      |||||
Dy      498  AACTCTGTGCGACGAGCGCGGTAAATACAGAGGGTCAAGGCTTAATGGAATTAATCTGGG 557
      |||||
Dy      508  AACTACGTCGACGAGCGCGCGTAAATACGTAAGTGGGCAAGGGTGTCTCGGAATTAATTTGGG 567
      |||||
Dy      558  CGTAAAGCGACGTAAGGTGCTTAATTAAGTACAGATGTAAGTAATCCCGGGCTTAAACCTGGG 617
      |||||
Dy      568  CGTAAAGCGCGGAGCGGCTTTCTTAAGTGTGAATGTAAGAAAGCCACGCGCTCAACCTGGG 627
      |||||
Dy      618  AACTGCACTTGAACCTGTTAGCTTGAAGTGAAGTGAAGGGAAGTAAATTTCAAGTGTAG 677
      |||||
Dy      628  AAGGTCAATGGAATCTGGGAACTTGAAGTGAAGGGAAGAAAGGGAATTCACAGTGTAG 687
      |||||
Dy      678  CGGTGAATGCGTGAAGATCTGAAGAAATACGATGCGGAAGGACGCTTCTCGGATCAT 737
      |||||
Dy      688  CGGTGAATGCGTGAAGATGTGTGAGAAACACAGATGGGGAAGGCGGCTCTTTGGTCTGTA 747
      |||||
Dy      738  ACTGACACTGAGGCTCGAAACCGTGGGTGAGCAACAGATTAAGTAAACCTGTGTGTGAC 797
      |||||
Dy      748  ACTGACGTGAGGCGGCAAAACGTTGGGAGGAAACAGATTAAGTAAACCTGTGTGTGAC 807
      |||||
Dy      798  GCGCTAAACGATGTCTACTAGTCTTTGGGCTCCCTTGAAGAC-TTAGTAAACCACTAAGC 856
      |||||
Dy      808  GCGCTAAACGATGTGTGTAGTGTGAAGGTTTCCGCTTTAGTGTCTGACGATTAAGC 867
      |||||
Dy      857  CAATTAAGTAGACCGCTGGGGAGTAGACGCGCAAGTTTAAATCTCAATGAATGAACGAG 916
      |||||

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Db 868 CATTAGCACTCCGCTGGGAGTACGCGCCAGAGCTAACTCAAGAAATTGACGGG 927
 Qy 917 GGGCCGCAAGCGGTGAGCATGTGTGTTAAATTCGATGCAACGCGAAGACCTTACTG 976
 Db 928 GGGCCGCAAGCGGTGAGCATGTGTGTTAAATTCGATGCAACGCGAAGACCTTACTG 987
 Qy 977 GTCTTGACATACACAGATCTTGTAGATACGAGTGCCTTTCGGAAATTGTGATAC 1034
 Db 988 GTCTTGACATCTCTGACCACTTAAAGATAGGACCTTCCCTTCGGGGAACAGATGAC 1047
 Qy 1035 AGGTGTGATGAGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1094
 Db 1048 AGGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1107
 Qy 1095 GCGCAACCTTGTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1154
 Db 1108 GCGCAACCTTGTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1166
 Qy 1155 GACCAACTGAGAGAGCGGGGACGATGATGATGATGATGATGATGATGATGATGATG 1214
 Db 1167 GACCAACTGAGAGAGCGGGGACGATGATGATGATGATGATGATGATGATGATGATG 1226
 Qy 1215 CACAGCTGTACAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1274
 Db 1227 CACAGCTGTACAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1286
 Qy 1275 AAAAGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1334
 Db 1287 TAAACCATCTTCAAGTTCGATGATGATGATGATGATGATGATGATGATGATGATGATG 1346
 Qy 1335 AGTAATCGCGATCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1394
 Db 1347 AGTAATCGCGATCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1406
 Qy 1395 TCACACATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1451
 Db 1407 TCACACATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1466
 Qy 1452 CACCAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1497
 Db 1467 GCCGAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1512

RESULT 9

US-11-055-637-76

Sequence 76, Application US/11055637

Publication No. US20050260619A1

GENERAL INFORMATION:

APPLICANT: BROUSSEAU, Roland

APPLICANT: DUBOIS, Jason

APPLICANT: EDGE, Tom

APPLICANT: MASSON, Luc

APPLICANT: TREVORS, Jack T.

TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND

TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES

FILE REFERENCE: 2139-33US

CURRENT APPLICATION NUMBER: US/11/055,637

PRIOR FILING DATE: 2005-02-11

PRIOR FILING DATE: 2004-02-11

NUMBER OF SEQ ID NOS: 114

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 76

LENGTH: 1485

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Probe for DNA array

US-11-055-637-76

Query Match 53.9%; Score 822; DB 7; Length 1485;
 Best Local Similarity 76.7%; Pred. No. 5,3e-256;

Matches 1135; Conservative 0; Mismatches 323; Indels 21; Gaps 10;
 Qy 30 GGGCCGAGCTTAAACATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 89
 Db 11 GGGCCGAGCTTAAACATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 67
 Qy 90 GAGCAGCGGAGCGGTGAGTAACTTACTAGG-AATCTACCTAGTATGAGGAGTACTCGG 148
 Db 68 TTAGCGGCGGAGCGGTGAGTAACTTACTAGG-AATCTACCTAGTATGAGGAGTACTCGG 127
 Qy 149 GGAACCTGCAATTAATACCGCAT------CGTCAAGGAGAAAGCAAGGAGTCA 198
 Db 128 GGAACCTGCAATTAATACCGCAT------CGTCAAGGAGAAAGCAAGGAGTCA 187
 Qy 128 GGAACCTGCAATTAATACCGCAT------CGTCAAGGAGAAAGCAAGGAGTCA 187
 Db 128 GGAACCTGCAATTAATACCGCAT------CGTCAAGGAGAAAGCAAGGAGTCA 187
 Qy 199 TTAGACCTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 258
 Db 188 TTAGACCTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 247
 Qy 259 TACCATGCGGAGATCTGTAGCTGTGATGATGATGATGATGATGATGATGATGATGATG 318
 Db 248 TACCATGCGGAGATCTGTAGCTGTGATGATGATGATGATGATGATGATGATGATGATG 307
 Qy 319 ACAGCCCGGACT-CTACGAGAGGAGCAGTGGGGAATATGGAACAATGAGGAACTCTG 377
 Db 308 ACAGCCCGGACT-CTACGAGAGGAGCAGTGGGGAATATGGAACAATGAGGAACTCTG 367
 Qy 378 ATCCAGCATGCGCGTGTGTGTAAGAGGCTTTTGTGTGTAAGACTTAAAGCATTAAGCAT 437
 Db 368 ATCCAGCATGCGCGTGTGTGTAAGAGGCTTTTGTGTGTAAGACTTAAAGCATTAAGCAT 427
 Qy 438 AGAAGCTCTTGGTTAATACCGGGAAGATGATGATGATGATGATGATGATGATGATGATG 497
 Db 428 AGAAGCTCTTGGTTAATACCGGGAAGATGATGATGATGATGATGATGATGATGATGATG 487
 Qy 498 AACTGTGTCAGCAGCCCGGATTAATACAGAGGTGCAACGTTAATCGAATTAATCTGAG 557
 Db 488 AACTGTGTCAGCAGCCCGGATTAATACAGAGGTGCAACGTTAATCGAATTAATCTGAG 547
 Qy 558 CTTAAAGCAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 617
 Db 548 CTTAAAGCAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 607
 Qy 618 AACTGATCTGAACTGTAAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 677
 Db 608 AACTGATCTGAACTGTAAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 667
 Qy 678 CCGTGAATATGCGTGAATCTGAAAGATACCGATGCGAAGCAGCTTCTGCGATCAT 737
 Db 668 CCGTGAATATGCGTGAATCTGAAAGATACCGATGCGAAGCAGCTTCTGCGATCAT 727
 Qy 738 ACTGACATGAGGCTGAAAGCGTGGTACCAACAGATTAGATACCTGTGATGCTCAC 797
 Db 728 ACTGACATGAGGCTGAAAGCGTGGTACCAACAGATTAGATACCTGTGATGCTCAC 787
 Qy 798 GCGTAAAGATCTCTAATAGTCTGAGTCCCTTACG-ACTTATGAGCGGAGTAAAG 856
 Db 788 GCGTAAAGATCTCTAATAGTCTGAGTCCCTTACG-ACTTATGAGCGGAGTAAAG 847
 Qy 857 CATAAGTGAACCGCTGAGGAGTACGCGGCAAGGTTAAACTCAATGAATGACGAG 916
 Db 848 CATAAGTGAACCGCTGAGGAGTACGCGGCAAGGTTAAACTCAATGAATGACGAG 907
 Qy 917 GGGCCGCAAGCGGTGAGCATGTGTGTTAAATTCGATGCAACGCGAAGACCTTACTG 976
 Db 908 GGGCCGCAAGCGGTGAGCATGTGTGTTAAATTCGATGCAACGCGAAGACCTTACTG 967
 Qy 977 GTCTTGACAT-ACACGAATCTTGTAGAGTACAGAGTGCCTTCGGGAATGTGAT-AC 1034
 Db 968 GTCTTGACATCCACATGACCGGATGTAGAGTACCGCTTCCCTTCGGGAATGTGAT-AC 1027
 Qy 1035 AGGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1094
 Db 1028 AGGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1087


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RESULT 12
US-10-793-626-3967/c
; Sequence 3967, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793, 626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164, 258
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3967
; LENGTH: 3821
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; US-10-793-626-3967
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Query Match          53.7%; Score 819.6; DB 6; Length 3821;
Best Local Similarity 74.1%; Pred. No. 5e-255;
Matches 1119; Conservative 0; Mismatches 377; Indels 15; Gaps 6;
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QY 30 GGGGCGAGGCTTAACATGCAAGTCGAGCGGAACGATGATAGCTTCTATTAGCGCTC 89
DB 3616 GGGGCGGCTGCTTAATCATGCAAGTCGAGCGGAACGATGATAGCTTCTATTAGCGCTC 3557
QY 90 GAGCGCCGGAAGGCGGATTAATCTTAGGAATCTAGTAGTGGGAGTATAGCTCGG 149
DB 3556 TAGCGCGGACGGGTGATGATGACGTCGATTAACCTTAAGCTTAGGATTAATCTTCCG 3497
QY 150 GAAACTCGAATTATATACCGCAT-----ACGCTACGGGAGAAAGAGGGGANTCAT 200
DB 3496 GAAACCGGAGCTTAATACCGGATTAATATTGAACCGCATGCTTCAATAGTGAAGCGGT 3437
QY 201 AGACCTGGGCTATTAGATGAGCTTAAGTCGATTAGCTAGATGGGTAAAGGCTTA 260
DB 3436 TTTGCTGCTACTTATGATGATGATCCGCGCGCATTTAGTGTGAAGTAAAGGCTTA 3377
QY 261 CCATGGCGAGCATCTGTAGCTGCTGAGAGATGATCAAGCAACCGGAGCTGAGACAC 320
DB 3376 CCAAGGCAACGATGCTGATGCACTGAGAGGCTGATCGGCCACACTGGAACCTGAGACAC 3317
QY 321 GGCCCGGACT-CTACGGGAGGAGCAGTGGGGAATATTGGAACATAGGAGAAACCTGAT 379
DB 3316 GGTCCAGACTCTCTAGGAGGAGGAGCAGTGGGGAATCTTCCGCAATGGGGAAGACCTGAC 3257
QY 380 CCAAGCATCCCGGTGTGTGGAAGAGGCTTTGTTGTTAAAGCATTTAAGCATGAAG 439
DB 3256 GAGGCAACCCCGGTGATGATGAAGGTCTTCGATCGTAAACTGTTATTAGGGAAG 3197
QY 440 AAGACTCTCGTTATATACCCGGGAGCATTAAGCTGACGATTAAGCACCGGCTTA 499
DB 3196 AACCAATGTGTATGATCTATGACATCTTGAACGATCACTAATCAAAAAGCCACGGCTTA 3137
QY 500 CTCTGTCCAGCAGCCGCGGTATATACAGAGGTGCAAGCTTAATCGAATTAATGAGCG 559
DB 3136 CTACGTGCGCAGCAGCCGCGGTATATAGTGTGGCAAGGCTTAATCCGAATTAATGGCG 3077
QY 560 TAAAGCGAGGTAGTGCTTGAATAGTCAGATGTGAATCCCGGGCTTAACCTGGGA 619
DB 3076 TAAAGCGCGGTAGTGCTTGAATAGTCAGATGTGAATCCCGGTCAACCGGTGAGG 3017
QY 620 CTGCACTGAATCTGTAGCTAGATAGTGAAGAGGAAATTTCAAGTGTAGG 679
DB 3016 GGTCAATTGAACCTGGAACCTTGAATGCAAGAGGAAGTGAATTCATGTGTAGCG 2957
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QY 680 GTAAATGCTAGAGATCTGAAGGAATACCGATGCGAAGGCGCTTCTGTGATCATAC 739
DB 2956 GTGAATGCGCAGAGATATGAGGAACACAGTGGCGAAGGCGACTTCTGTGCTGTAAAC 2897
QY 740 TCACTAGAGCTCGAAAGCGTGGGTAGCAACAGATTAATATCCCTGGTGTGTCAGCC 799
DB 2896 TGACGCTGATGTGCAGAAAGCGGGGATCAACAGAGATTGATACCTGGTGTGTCAGCC 2837
QY 800 CGTAAAGATGCTACTAGTGTGGGTCCCTTAGAGA-CTTAGTGACGACTTAACGCA 858
DB 2836 CGTAAACGATGATGCTAATAGTTTAGGGGTTTCCGCCCTTAGTGTGCTGACTAAGCA 2777
QY 859 ATAGTAGACCGCTCGGGAGTAGACCGCGCAAGTTAAACTCAATGAATTAAGCGGG 918
DB 2776 TTAAGCACTCCGCTGGGAGTAGACCGCAAGTTGAATCTCAAGGAATTAAGCGGG 2717
QY 919 CCGGCAAGCGGTGAGATGTGTTTAATTCATGCAACCGCAAGAACTTAACCTGAT 978
DB 2716 CCGGCAAGCGGTGAGATGTGTTTAATTCATGCAACCGCAAGAACTTAACCTGAT 2657
QY 979 CTGACATACAGAGATCTGTGAGATTAACGAGATGCC--TTGGGAATTGTATACAG 1036
DB 2656 CTGACATCTCTTGACCCCTCTAGAGATGAGTTTCCCTTGGGGAGACAGATGACAG 2597
QY 1037 GTGCTGATGCTGTCTGACGCTCGTGTGTGATGATGTTGGTTAAGTCCCGCAAGAC 1096
DB 2596 GTGCTGATGCTGTCTGACGCTCGTGTGTGATGATGTTGGTTAAGTCCCGCAAGAC 2537
QY 1097 GCATCCCTTGTCTTAATTAACGACATTCGGGTGGGAATCTTAAGATTAATCTGCCAGTA 1156
DB 2536 GCATCCCTTAAGCTTAATTAATTAACGACATTCGGGTGGGAATCTTAAGATTAATCTGCCAGTA 2478
QY 1157 CAATCTGAGAGAGCGGGGAGACGATCAAGTCATGAGCCCTTAACGACGAGGCTACA 1216
DB 2477 CAATCTGAGAGAGCGGGGAGACGATCAAGTCATGAGCCCTTAATGATTTGGGCTACA 2418
QY 1217 CACGTGCTACATGCTAGGATACAGAGGCGCTACACAGCGATGTATGCAATCTCAA 1276
DB 2417 CACGTGCTACATGCTAGGATACAGAGGCGCTACACAGCGATGTATGCAATCTCAA 2358
QY 1277 AAGCTATGCTATGCTCAATTTGAGATCTGCACTGATCTCAATGAAATGCTGAG 1336
DB 2357 AAGCTATGCTATGCTCAATTTGAGATCTGCACTGATCTCAATGAAATGCTGAG 2298
QY 1337 TAATCGGATCAGAGTCCGCGGTGAATACGTTCCCGGCTTGAACACACCGCCGCT 1396
DB 2297 TAATCGGATCAGAGTCCGCGGTGAATACGTTCCCGGCTTGAACACACCGCCGCT 2238
QY 1397 ACACCATGAGAGTTGATGACACAGAGTGTAGCTTA-CTTAGTGAAGGCGATCAC 1455
DB 2237 ACACCATGAGAGTTGATGACACAGAGTGTAGTAACTTGAAGTGAAGCGGTG 2178
QY 1456 ACGGTGTGCTGATGATGCTGGGTGAATGCTTAACAGAGTGAAGCGGTGAAGCGGT 1515
DB 2177 AAGGTGGAACAATATATGAGGTGAATGCTTAACAGAGTGAAGCGGTGAAGCGGT 2118
QY 1516 TGATCACCTC 1526
DB 2117 TGATCACCTC 2107
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```
RESULT 13
US-10-793-626-4460/c
; Sequence 4460, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793, 626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164, 258
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; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4460
; LENGTH: 3008
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
; US-10-793-626-4460

```

Query Match	53.6%	Score 818	DB 6	Length 3008
Best Local Similarity	74.0%	Pred. NO. 1.5e-254		
Matches 1118, Conservative	0	Mismatches 378	Indels 15	Gaps 6

Oy	30	GGCGGCGAGGCTTAAACA	CACTGCAATGCCAGCGGAAACA	TGATACCTTGCTATTAAGGGCTC	89
Db	1517	GGCGGCGGCTTAAATAC	TACATGCAAGTCGAGCAACA	CGACGAGAACCTTGCTCTCTTGACGT	1458
Oy	90	GAGNCGCCGACGGGTGAGT	AATATACTTAGAATCTACCT	TAAGTGGGGGTAGACTCGGG	149
Db	1457	TAGCGGCGGACGGGTGAGT	AAACGTGATTAACCTACT	ATTAACACTGGGATTAACCTTCGG	1398
Oy	150	GAAACTCGAATTAATACCG	CAT-----ACGCT	CTACGGGAGAAAGCAGGGGNTCATTT	200
Db	1397	GAAACCGGAGCTAATAC	CCGGATTAATATATTTGA	ACCGCATGGTTCTCAATGTATGAACAGCGT	1338
Oy	201	AGACCTTGCCGTATTAAG	TGAGCCTAAGTCGGATTAGCT	TAATGCTGAGTGGGGTAAAGGCTTA	260
Db	1337	TTTGCTGTCACTTAATAG	TATGATGATCCGCGCCCATTTAGT	ATATTTGGTAAAGTAAAGCGGCTTA	1278
Oy	261	CCATGGCAGACATCTGTAG	CTGTCGTGAGAGATGATCAG	CACACCGCGGACTGAGACAC	320
Db	1277	CCAGGACAACATGCTGTAG	CCGACCTGAGAGGGTGTATCG	GCACACTGGAACCTGAGACAC	1218
Oy	321	GGCCCGGACTCTACGGG	AGGACGATGGGGATATTGGA	CAATGNGGGAACCTTGAT	379
Db	1217	GGTCGAGACTCTTACGGG	AGGACGACGATGAGGAATCTT	CCGCAATGGCGGAAACCTTGAC	1158
Oy	380	CCAGCGATCGCCGCTGTG	AAAGAGGCTTTGGTTGTAAG	CACTTAAGCAGTGAAGTGA	439
Db	1157	GGAGCAACGCGCGTAGT	GTAAAGGCTTCCTCGATCT	GTAAACCTCTGTTATTAGGGAG	1098
Oy	440	AAGACTCTTGGTTAATAC	CCCGGGACCATGACATTAG	CTCAGATTAAGCACCGGCTTAA	499
Db	1097	AACAAATGTGTAAGTAA	CTATGTACAGCTTTGACG	CTACTATGAAAGCAAGGCGCTTAA	1038
Oy	500	CTGTGTGCACAGACGCG	CGGTAAATACAGAGGGTGC	AGCGTTAATCGGAATTTACTGGGCG	559
Db	1037	CTACGTGCACAGACGCG	CGGTAAATACGATGGTGC	AGCGTTAATCGGAATTTACTGGGCG	978
Oy	560	TAAAGCGAGCGTAAAGT	GTGCTTGAATGACATGTG	AAATCCCGGGGCTTAAACCTGGGAA	619
Db	977	TAAACCGGCGCGTAAAG	CGGTTTTTTTAAGTCTGA	TGTGAAAGCCACCGCTCAACCGTGAAG	918
Oy	620	CTGCACTTGAAACTGTT	AGGCTTAGAGTGAAGGGAAG	TGAAATTTCAAGTGTGACG	679
Db	917	GCTCACTTGGAAACTG	GAATCTTGAGTGCAGAAAG	GAAGAAATTCATCTGTGTACG	858
Oy	680	GTGAATACGTAGAGATCT	GAAAGAAATACCGATGG	CGAAGCGACTTCTTGCAATCATAC	739
Db	857	GTGAATACGCGAGAA	TATGAGAGAAACACAGT	GGCGAAGGCACTTCTTGCTGTAAAC	798
Oy	740	TGACACTAGAGCTCGA	AAAGCGTGGTACAAACAG	ATTTAGATACCCTGGTATGCTACAGC	799
Db	797	TGACGCTGATGTGCA	AAAGCGTGGGATATCA	AAACAGATTAATCCCTGGTATGCTACAGC	738
Oy	800	CGTAACGATGTCTACT	AGTCGTTGGGCTCCCTT	TGAGGA-CTTACTGACGCACTAACGCA	858
Db	737	CGTAACGATGTAGT	GTGCTTATGAGGGGTTT	CCGCCCTTTAGTGTGCAAGCTAACGCA	678
Oy	859	ATAAGTAAACCGCT	TGGGAGTACGCGCGCA	AGTTAAACTCAATGAAATTTAGCGGGG	918

Db	677	TTAAGACATCCGCTCGGGAGAGTACGACCCGGAAGGTTGAACCTCAAGGAATTGACGGGGA	618
Qy	919	CCCGCACAGCGGTGAGCATGTGTGTTAAATTGGATGCAACGGAGAACCTTACTGTGT	978
Db	617	CCCGCACAGCGGTGAGCATGTGTGTTAAATTGGAGCAACGGAGAACCTTAACTCAAT	558
Qy	979	CTTGACATACACGAACTCTGTAGAGTACGAGAGTGC--TTCCGGGAATTGTATCAG	1036
Db	557	CTTGACATCCCTGTGATCCCTCTGAGATGAAAGGTTTCCCTTGGGGGACAGATGACAG	498
Qy	1037	GTGCTGATGAGCTGTGCTCAGACTCGTGTCTGTAGATTTGGGTTAAAGTCCCGACAGC	1096
Db	497	GTGTGATCATGTGTTCGTCACTGCTGTCTGTAGATTTGGGTTAAAGTCCCGACAGC	438
Qy	1097	GCAACCCCTTGTCTTAAATTACCAAGACTTCGGGTGGGAACCTTAAGATATCTGCAGTGA	1156
Db	437	GCAACCCCTTAAAGTTAGTTAGTGCATCA--TTAAAGTTGGGACACTTAAGTTGACTGCGGTGA	379
Qy	1157	CAAACTGGAGAAAGCCGGGACCAACCTTCAGTATCATATGACCCTTACGACAGGCTTACA	1216
Db	378	CAAAACCGGAGAAAGTGGGATGACGTCAATCATCATATGCCCCCTTATGATTTGGGCTACA	319
Qy	1217	CACGTGCTACATGTTAGTACAGAGGGCAGCTTCAAGGATGTGATGCAATCTCAA	1276
Db	318	CACGTGCTACATGATGACATATACAAAGGGCAGCAAAACCGGAGGTCAAGCAATCCATA	259
Qy	1277	AAGCCTATCGTAGTCCAGATTGAGTGTGCAACTCGACTCCATGAGTAAGTAGAATCGTTAG	1336
Db	258	AAGTTGTTCTCAGTTCCGATTGTGTAGTCTGCAACTGCATCTATATGAACCTGGAATCGCTAG	199
Qy	1337	TAAATCGCGGATCAGAAATGCGCGGTGAATACGTTCCCGGGCCCTTGATACACACGCCCGTC	1396
Db	198	TAAATCGTAGATCAGACATGCTACCGTGAAATACGTTCCCGGGCTTTGTACACACGCCCGTC	139
Qy	1397	ACACCATGGGAGTTGATTGACACAGAAAGTGTAGCTTAA--CTTAGAGAGGCGATCAC	1455
Db	138	ACACACGAGAGTTTGTAAACACCCGAAACCGGTGAGTAAACATTTGGAAGCTAGCGGTG	79
Qy	1456	ACGGTGTGTGATGACTGAGTGGGGTGAAGTCTTAACAAGGTAGCCGTAGAGGAACTGCGGC	1515
Db	78	AAGGTGGGACAAATGATTTGGGGTGAAGTCGTAAACAAGTAGCCGTATCGAAGGTGCGGC	19
Qy	1516	TGATCACTTC	1526
Db	18	TGATCACTTC	8

RESULT 14
 US-10-793-626-4187/c
 ; Sequence 4187, Application US/10793626
 ; Publication No. US20050255478A1
 ; GENERAL INFORMATION:
 APPLICANT: KIMBERLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 FILE REFERENCE: P03480US
 CURRENT APPLICATION NUMBER: US/10793.626
 CURRENT FILING DATE: 2004-03-04
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 ; SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 4187
 LENGTH: 3657
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 ; OTHER INFORMATION: nucleic acid sequence
 US-10-793-626-4187

Query Match	53.6%	Score 818;	DB 6;	Length 3657;
Best Local Similarity	74.0%	Pred. No. 1.6e-254;		
Matches 1118;	Conservative	0;	Mismatches 378;	Indels 15; Gaps 6;

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QY      30 GGGCGAGGCTTAACATGATGAGCGGAAAGATAGCTTGTCTATTAGGCGTC 89
      1617 GGGCGGCTCCATTAATCATGCAAGTGCAGCAACAGAGAGCTGCTCTGTACGT 1558
QY      90 GAGCGGCCGAGCGGTGAGTAACTTAAAGATCTAAGTATGTTGGGAGATAGCTCGG 149
      1557 TAGCGGCGGACGGGTAGTAAACGTGATTAACCTTAAAGATGGGATTAACCTTCG 1498
QY     150 GAAACTCGAATTAATACCCGAT-----ACGTAGCGGAGAAAGCAGGGGATCAT 200
      1497 GAAACCGGAGCTAAATCCGATTAATATTAATTAACCCGATGTTCAATTAATGAAGCGGT 1438
QY     201 AGACCTGGCGCTATTAGATGAGCCTTAAGTCGATTAAGTATGATGATGATGATGATGAT 260
      1437 TTTGCTGCTACTTATATGATGATCCCGCGCATTAAGTATGATGATGATGATGATGAT 1378
QY     261 CCATGGCGAGCATCTGTAGCTGTGTGAAGATGATGATGATGATGATGATGATGATGATGAT 320
      1377 CCAAGGCAAGATGCTGATCCGACCTGAGAGGGTGAATCGGCCCACTGGAACTGAGACAC 1318
QY     321 GGCCCGGACT-CTACGGGAGGAGCAGTGGGGAATTGGAACAATGAGGAACTGAT 379
      1317 GGTCCAGACTCTACGGGAGGAGCAGTGGGGAATCTTCGCAATGGCGGAAAGCTGAC 1258
QY     380 CCAGCCATGCGCGGTGTGAAAGAGGCTTTTGTGTTAAAGCACTTAAAGCAGTGAAG 439
      1257 GAGAGCAAGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1198
QY     440 AAGACTCTTGGTTAATACCCGGGAGCATGACATTAGCTGCAAGATTAAGACCGGCTAA 499
      1197 AACCAATGTATTAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1138
QY     500 CTCTGTCGAGAGCGCGGCTAATACAGAGGTGCAAGGTTAATGGAATTAATGCGGCG 559
      1137 CTACGTCGAGAGCGCGGCTAATACAGAGGTGCAAGGTTAATGGAATTAATGCGGCG 1078
QY     560 TAAAGCGAGCTGAGTGTGCTTGAATAGTGAATGCTAACTTAACTTAACTTAACTTAA 619
      1077 TAAAGCGAGCTGAGTGTGCTTGAATAGTGAATGCTAACTTAACTTAACTTAACTTAA 1018
QY     620 CTGATCTGAATCTGTTAGGCTAGTGAAGTGAAGGAAAGTGAATTTCAAGTGTAGCG 679
      1017 GGTCTATGGAATCTGGAATTAATGATGCAAGAAAGTGAATTTCAAGTGTAGCG 958
QY     680 GTGAATGAGTGAATCTGAAGGATTAACGATGCGGAGGAGGCTTCTGCTGATCATAC 739
      957 GTGAATGAGTGAATCTGAAGGATTAACGATGCGGAGGAGGCTTCTGCTGATCATAC 898
QY     740 TGAACCTGAGGCTGCAAAAGCTGAGTGAAGAAACAGATTAAGTAACTTAACTTAACTTAA 799
      897 TGAACCTGAGGCTGCAAAAGCTGAGTGAAGAAACAGATTAAGTAACTTAACTTAACTTAA 838
QY     800 CGTAAACGATGCTTACTAGTCTGTTGCTGCTTGAAGA-CTTAGTGAAGCAGCTTAACGCA 858
      837 CGTAAACGATGCTTACTAGTCTGTTGCTGCTTGAAGA-CTTAGTGAAGCAGCTTAACGCA 778
QY     859 ATTAAGTGAACCGCTGAGGAGTAAACGCGCAAGGTTAAATCAATTAATGAACGCGGCG 918
      777 TTAAGGACTTCGCTGAGGAGTAAACGCGCAAGGTTAAATCAATTAATGAACGCGGCG 718
QY     919 CCCGCAAGAGCGGTGAGTGTGTTAATTCATGATGCAACGCAAGAACTTAACTTAACTTAA 978
      717 CCCGCAAGAGCGGTGAGTGTGTTAATTCATGATGCAACGCAAGAACTTAACTTAACTTAA 658
QY     979 CTTAGCATACAGAACTTTGATGAGATACGAGATGCC--TTGCGGAATTGTATACG 1036
      657 CTTAGCATACAGAACTTTGATGAGATACGAGATGCC--TTGCGGAATTGTATACG 598
QY    1037 GTGCTGATGCTGTGCTGATGCTGTGCTGATGATGATGATGATGATGATGATGATGATGAT 1096
      597 GTGCTGATGCTGTGCTGATGCTGTGCTGATGATGATGATGATGATGATGATGATGATGAT 538

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QY    1097 GCACCTTGTCTTATGATACGAGCATTCGGGTGGAACTTAAAGATTAATGCTGAGTGA 1156
      537 GCACCTTGTCTTATGATACGAGCATTCGGGTGGAACTTAAAGATTAATGCTGAGTGA 479
QY    1157 CAAATGAGAGAGCGGAGGAGCAGCTCAAGTATGATGATGATGATGATGATGATGATGATGAT 1216
      478 CAAATGAGAGAGCGGAGGAGGAGCAGCTCAAGTATGATGATGATGATGATGATGATGATGAT 419
QY    1217 CAGGTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1276
      418 CAGGTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 359
QY    1277 AAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1336
      358 AAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 299
QY    1337 TAAATGCGGATCAAGATGCGGCGTGAATGATGATGATGATGATGATGATGATGATGATGAT 1396
      298 TAAATGCGGATCAAGATGCGGCGTGAATGATGATGATGATGATGATGATGATGATGATGAT 239
QY    1397 ACACGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1455
      238 ACACGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 179
QY    1456 ACGGTGTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1515
      178 ACGGTGTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 119
QY    1516 TGGATCACTC 1526
      118 TGGATCACTC 108

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RESULT 15
US-11-055-637-71
; Sequence 71, Application US/11055637
; Publication No. US2005026019A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055,637
; PRIOR FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71
; LENGTH: 1486
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-71

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Query Match      53.6%; Score 817.2; DB 7; Length 1486;
Best Local Similarity 74.8%; Pred. No. 1.9e-254;
Matches 1105; Conservative 0; Mismatches 356; Indels 16; Gaps 6;

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      11 GGGCGGCTCCATTAATCATGCAAGTGCAGCAACAGAGAGCTGCTCTGTACGT 70
DB      90 GAGCGGCCGAGCGGTGAGTAACTTAAAGATCTAAGTATGTTGGGAGATAGCTCGG 149
QY      71 TAGCGGCGGACGGGTAGTAAACGTGATTAACCTTAAAGATGGGATTAACCTTCG 130
DB      150 GAACTCGAATTAATACCGATA-----CGTTCAGGAGAAAGCAGGGGATCAT 199

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Good Blank (uspho)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OW nucleic - nucleic search, using SW model

Run on: December 2, 2005, 23:29:37 ; Search time 1618.84 Seconds
(without alignments)
7795.112 Million cell updates/sec

Title: US-09-979-558A-1

Perfect score: 1526
Sequence: 1 tcttgacacgctccacgatt.....acctgcgctgacaccc 1526

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 413689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:*

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10: /cgn2_6/prodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	1211	79.4	269223	7 US-10-672-787-41	Sequence 41, Appl
2	1098.6	72.0	1501	3 US-09-745-476-1	Sequence 1, Appl
3	1098.6	72.0	1501	3 US-09-821-016-5	Sequence 5, Appl
4	1098.6	72.0	1501	3 US-09-748-205-1	Sequence 1, Appl
5	1098.6	72.0	1501	3 US-09-793-520A-1	Sequence 1, Appl
6	1098.6	72.0	1501	3 US-09-951-720-1	Sequence 1, Appl
7	1098.6	72.0	1501	3 US-09-791-610-1	Sequence 1, Appl
8	1098.6	72.0	1501	3 US-10-218-519-5	Sequence 5, Appl
9	1098.6	72.0	1501	5 US-10-266-787-5	Sequence 5, Appl
10	1098.6	72.0	1501	5 US-10-252-518-5	Sequence 5, Appl
11	1098.6	72.0	1501	5 US-10-105-305-1	Sequence 1, Appl
12	1098.6	72.0	1501	5 US-10-133-404A-1	Sequence 1, Appl
13	1098.6	72.0	1501	6 US-10-242-696-1	Sequence 1, Appl
14	1098.6	72.0	1501	6 US-10-411-319-1	Sequence 1, Appl
15	1098.6	72.0	1501	7 US-10-649-646-1	Sequence 1, Appl
16	1098.6	72.0	1501	7 US-10-603-996-1	Sequence 1, Appl
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18	1090.4	71.5	1494	5 US-10-007-725-5	Sequence 1, Appl
19	1073.8	70.2	1467	3 US-09-737-297-4	Sequence 4, Appl
20	1070.8	70.2	1467	3 US-09-726-774-3	Sequence 3, Appl
21	1070.8	70.2	1467	7 US-10-719-633-3	Sequence 3, Appl
22	1070.6	70.2	1541	3 US-09-027-439-7	Sequence 7, Appl
23	1070.2	70.1	1542	7 US-10-361-002-6	Sequence 6, Appl

24	1070.2	70.1	1542	7 US-10-361-004-6	Sequence 6, Appl
25	1070	70.1	1534	6 US-10-029-397A-35	Sequence 35, Appl
26	1069.2	70.1	1542	3 US-09-940-925A-158	Sequence 158, Appl
27	1069.2	70.1	1542	3 US-09-941-192A-158	Sequence 158, Appl
28	1069.2	70.1	1542	5 US-10-061-071-33	Sequence 33, Appl
29	1069.2	70.1	1542	5 US-10-723-365B-29	Sequence 29, Appl
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31	1069.2	70.1	1542	10 US-11-069-442-33	Sequence 33, Appl
32	1066.2	69.9	10903	7 US-10-612-224-1	Sequence 1, Appl
33	1065.2	69.8	11518	7 US-10-612-224-2	Sequence 2, Appl
34	1065.2	69.8	13278	7 US-10-612-224-3	Sequence 3, Appl
35	1062.6	69.6	1541	3 US-09-726-774-2	Sequence 2, Appl
36	1062.6	69.6	1541	7 US-10-719-633-2	Sequence 8, Appl
37	1062	69.6	1541	9 US-09-912-020-89	Sequence 242, Appl
38	1058.2	69.3	1549	3 US-09-912-020-242	Sequence 402, Appl
39	1058.2	69.3	1549	3 US-09-912-020-402	Sequence 89, Appl
40	1058.2	69.3	1549	8 US-10-771-241-89	Sequence 2, Appl
41	1058.2	69.3	1549	8 US-10-771-241-242	Sequence 402, Appl
42	1058.2	69.3	1549	8 US-10-771-241-402	Sequence 14, Appl
43	1052.4	69.0	1487	3 US-09-726-774-14	Sequence 14, Appl
44	1052.4	69.0	1487	3 US-10-719-633-14	Sequence 14, Appl
45	1052.4	69.0	1487	7 US-10-719-633-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-10-672-787-41/C
Sequence 41, Application US/10672787
Publication No. US20040067554A1
GENERAL INFORMATION:
APPLICANT: LAGACE, Robert, E.
APPLICANT: PATTERSON, Chandra
APPLICANT: BERG, K.M., L.
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME
FILE REFERENCE: EPIRA.02501
CURRENT APPLICATION NUMBER: US/10/672,787
CURRENT FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 09/596,002
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 41
SOFTWARE: PERL Program
SEQ ID NO 41
LENGTH: 269223
TYPE: DNA
ORGANISM: Moraxella catarrhalis
US-10-672-787-41

Query Match	79.4%	Score 1211;	DB 7;	Length 269223;
Best Local Similarity	90.6%	Pred. No. 0;		
Matches 1361;	Conservative	0;	Mismatches 127;	Indels 15; Gaps 6;
QY	30	GGCGGAGGCTTAACACATGCAAGTCAAGGGAACGATGATGCTTGTATTAGCGGTC	89	
DB	92956	GGCGGAGGCTTAACACATGCAAGTCAAGGGAACGATGATGCTTGTATTAGCGGTC	92901	
QY	90	GAGCGCCGCGGAGGATGATTAATCTTAAGATCTTAAGTGGGGATGCTTCGGG	149	
DB	92900	TTAGTGGCGGAGCGGATGATTAATCTTAAGATCTTCGTCGTGATGGGATTAATTCGGG	92841	
QY	150	GAACCTCGAATTAATACCGGATACGCTTACGCGGAAAGAGGAGGATCAATTAACCTTCG	209	
DB	92840	GAACCCAGCTAATACCGGATACGCTTACGCGGAAAGAGGAGGATCAATTAACCTTCG	92785	
QY	210	GCTATTAGATGAGCTTAAGTCGATTAAGTGAATGAGGAGGATTAAGGCTTACCATGAGCGA	269	
DB	92784	GCTATTAGATGAGCTTAAGTCGATTAAGTGAATGAGGAGGATTAAGGCTTACCATGAGCGA	92725	
QY	270	CGATCTGTAGCTGTCTGAGAGGATGATCAAGCCACGCGGACTGAGACACGCGCCGAGC	329	
DB	92724	CGATCTGTAGCTGTCTGAGAGGATGATCAAGCCACGCGGACTGAGACACGCGCCGAGC	92665	

QY 330 T-CTACGGAGAGCAGATGGGGAAAT-----ATTGACAATAGNGGAAACCTGATCCAG 383
Db 92664 TCCCTAGGGAGGAGCAGATGGGGAAATTTGGATTGGACAATGGGCGAAAGCCTGATCCAG 92605
QY 384 CCATGCCCCGTGTGTGAAGAAGCCCTTTGGTTGTAAAGCACTTTAAAGCAGTGAAGAAGA 443
Db 92604 CCATGCCCCGTGTGTGAAGAAGCCCTTTGGTTGTAAAGCACTTTAAAGGAGGAGAAAA 92545
QY 444 CTCTTGGTTAATACCCGGGAGCATGACATGATGACAAATPAAGCACCGGCTAATCTCT 503
Db 92544 GCTTATGTTAATACCATTAAGCCCTGACCTTACCAAGAAATPAAGCACCGGCTAATCTCT 92485
QY 504 GTGCCAGCAGCCCGGTATATACAGAGGGTGCAAGCCTTAATCGGAATTACTGGCGTTAA 563
Db 92484 GTGCCAGCAGCCCGGTATATACAGAGGGTGCAAGCCTTAATCGGAATTACTGGCGTTAA 92425
QY 564 GCGAGCGTGTGGCTTTGATTAAGTCAAGTGTGAATTCCTCCGGCTTTAACCCTGGAACTGC 623
Db 92424 GCGAGCGTGTGGCTTTGATTAAGTCAAGTGTGAATTCCTCCGGCTTTAACCCTGGAACTGC 92365
QY 624 ATCTGAACTGTAGGCTAGAGTAGGAGAGGAGTAGAATTTTCAGGTGTAGCGGTGA 683
Db 92364 ATCTGATCTGGAATTAACAGAGTAGGAGAGGAGTAGAATTTTCAGGTGTAGCGGTGA 92305
QY 684 AATGCTAGAGATCTGAAGGAATACCGATGCGAGCAGCTTCTGGCATCATCTGAC 743
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QY 744 ACTGAGGCTCGAAAGGTGGGTAGCAACAGATTAGATACCTGGTATCTCCAGCGCGTA 803
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QY 804 AACGATGTCTACTAGTCGTGGGTCCCTTGAGAGACTTAGAGCGCAGCTAACGCAATAAG 863
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QY 864 TAGACCGCTGGGAGTACGCGCCGCAAGGTTAAACTCAATGAAATGACGCGGCGCGC 923
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QY 1224 TACAAATGATGATACAGAGGCGCTACACAGGATGTAGTGAATCTCAAAAAGCCTTA 1283
Db 91764 TACAAATGATGATACAGAGGCGCTACACAGGATGTAGTGAATCTCAAAAAGCCTTA 91705
QY 1284 TCGTATCCAGATTTGAGAGTGTGCACTCGACTCATGAAAGTAGGAATTCGTAGTAATGCG 1343
Db 91704 TCGTATCCAGATTTGAGAGTGTGCACTCGACTCATGAAAGTAGGAATTCGTAGTAATGCG 91645
QY 1344 GGATCAGAAATGCGCGGTGAATCGTTCGCGGCTTTGTACACACCGCGCGTACACCAAT 1403
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Db 91584 GGGAGTTGATTCTCACAGAAAGTGTAGCTTAACCA-AGAGGGGATCAACCAAGGTGTG 91526
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QY 1524 CTC 1526
Db 91465 CTC 91463

RESULT 2
US-09-745-476-1
; Sequence 1, Application US/09745476
; Patent No. US20010029039A1
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Preparation of Poly-hydroxylkanolic Acid
; FILE REFERENCE: 4351008
; CURRENT APPLICATION NUMBER: US/09/745,476
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; FERM P-17445
US-09-745-476-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1.6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GCGGCGAGGCTTAACATGCAAGTCCGAGCGGAAACGATGATAGCTTCTATTAGCCGC 89
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QY 90 GAGCGCGGAGCGGTGAGTAATTAAGTAATCTTACGATGATGAGGAGATGAGTCCGG 149
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QY 150 GAACTCGAATTAATACCGCATAGCT-CTACGGGAAAGACGCGGANTCATTAACCTTG 208
Db 124 GAAAGGAGCGGTAATACCGCATAGCTCTACGGGAAAGACGCGGACCTTCGGGCTTG 183
QY 209 CGCTTATGATGAGCTTAAGTCCGATTTAGTATGATGATGAGTGAAGCTTAACATGCGC 268
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QY 448 TCGGTTAATACCCGGGAGCATGACATTAAGTGCAGAAATTAAGCACCGGCTAATCTGTGC 507
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Db	604	AAAATGACAAAGCTAGAGTAAGTGTAGAGGGTGTGGAATTTCTGTGTACCGGTGAATG	663
Oy	688	CGTAGAGATTCTGAAGGAATACCGATGGCGAAGGACCTTCTGGCATCATATGACACTG	747
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Db	724	AGGTGCGAAAGCGTGGGGAGCAAAACAGATTAAATACCTCGGTATAGTCCAGCGTAAACG	783
Oy	808	ATGTCTACTAGTCTGTGGTCCCTTGAAGACTTATGACCGCAGCTAAACGAAATAGTAGA	867
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Oy	868	CCGCTTGGGAGTACGGCCGCAAGGTTAAACTCAATGATTAAGCGGGGCCCCGCAAA	927
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Oy	928	GGGTGAGCACTGTGTTTAATTCGATGCAACCGCAAAACCTTAACCTGATCTTGACATA	987
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Oy	988	CACAGAACTTTGATAGATACGAGAGTGCCTTGGGAAATTGTGATACAGGTGCTGCATGG	1047
Db	964	CAATGAATCTTTCAGAGATGATAGGGTGCTTGGGAAACATTGAGACAGGTGCTGCATGG	1023
Oy	1048	CTGTGCTAGCTCTGTGCTGATGATGTTGGGTTAAGTCCCGCAACGAGCCGACCTTGT	1107
Db	1024	CTGTGCTAGCTCTGTGCTGATGATGTTGGGTTAAGTCCCGCAACGAGCCGACCTTGT	1083
Oy	1108	CCTTAGTTAACGAGCAC-TTCGGGTGGGAACCTTAAGGATATCTGCAATGACAACTGAGAG	1166
Db	1084	CCTTAGTTAACGAGCACTAATGATGAGCACTTAAGGAGACTGCGGTGACAAACCGAG	1143
Oy	1167	GAAGCGGGGAGCAGCTCAAGTCATCATGCGCCCTTACGACACGAGGGCTACACACGTGCTAC	1226
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Oy	1227	AATGTAGGTACAGAGGGGACGCTACACAGCGATGTGTCGAACTTCAAAAAGCTTATCG	1286
Db	1204	AATGTGCGGTACAGAGGGTGGCCAGCCGAGAGGTGAGGCTAATCCCAAAAACCGATCG	1263
Oy	1287	TAGTCCAGATTGAGTCTGCACTGCACTCAATGAAGTAGGAATCGCTAAGTAATCGGAGA	1346
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Oy	1466	CGATGACTGGGGTGAAGTGTGTAACAAGTACCGGTAGGGGAACCTGGGGCGGTGATCAC	1523
Db	1444	TCATGACTGGGGTGAAGTGTGTAACAAGTACCGGTAGGGGAACCTGGGGCGGTGATCAC	1501
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US-09-821-016-5			
Sequence 5, Application US/09821016			
Patent No. US20010046692A1			
GENERAL INFORMATION:			
APPLICANT: CANON INC.			
TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzymes			
FILE REFERENCE: 4051021			
CURRENT APPLICATION NUMBER: US/09/821, 016			
CURRENT FILING DATE: 2001-03-30			
NUMBER OF SEQ ID NOS: 11			

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; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
us-09-821-016-5

Query Match      72.0% ; Score 1098.6 ; DB 3 ; Length 1501 ;
Best Local Similarity 85.9% ; Pred. No. 1.6e-288 ;
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6

OY 30 GCGCGCAGCGCTTAAACACATGCAAGTCGACCGGAAACGATGATAGCTTGCTATTAAGCGTC 89
Db 9 GCGCGCAGCGCTTAAACACATGCAAGTCGACCGG--ATGACGGGAGCTTGCTCTGTAATTGA 66
OY 90 GAGCNGCCGACGCGGTGAGTAATACTTAGAATCTTACTAGTAGTGGGGGATAGCTCGGG 149
Db 67 G---CGCGGACGCGGTGAGTAATGCTTAGAATCTGCTGTGATGAGGGGAGAACGTCCTC 123
OY 150 GAAACTCGAATTAAATACCGCATACCT-CTACCGGAGAAAGACGGGGANTCATTAAGCCTTG 208
Db 124 GAAAGGGACGCTTAATAACCGCATACCTCTTACGGGAGAAAGACGGGGACCTTGCGGCTTG 183
OY 209 CGCTATTGATGAGGCTTAAGTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTC 268
Db 184 CGCTATCGATGAGGCTTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTC 243
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OY 329 CT-CTACGGGAGGACGACGTCGAGGAAATTTGACACATGAGNGGGAACCTTGATTCAGCCAT 387
Db 304 CTCTTACGGGAGGACGACGTCGAGGAAATTTGACACATGAGGACGAGGACCTTGATTCAGCCAT 363
OY 388 GCGCGGTGAGGAAAGGCGCTTTGGTTGTAAGCACTTTAAGCAGTGAAGAGACTCT 447
Db 364 GCGCGGTGAGGAAAGGCTTTGGTTGTAAGCACTTTAAGCAGTGAAGAGGAGCAT 423
OY 448 TCGGTTAATACCCCGGAGACGATGATTAAGCTGACGAATTAAGCACCGGCTAACTCTGTG 507
Db 424 TAACTTAATACCGTTAGTGTGTTTGAAGTAAACGACGAATTAAGCACCGGCTAACTCTGTG 483
OY 508 CAGCAGCCGCGGTAAATACAGAGGGTCGAAGCTTAATCGGAATTACTGGGCGTTAAAGCGA 567
Db 484 CAGCAGCCGCGGTAAATACAGAGGGTCGAAGCTTAATCGGAATTACTGGGCGTTAAAGCGC 543
OY 568 GCGTGTGTGCTTGAATTAAGTCAGATGTGAATCCCGGGCTTAACCTGGGAACTGCATCT 627
Db 544 GCGTGTGTGCTTGAATTAAGTCAGATGTGAATCCCGGGCTTAACCTGGGAACTGCATCT 603
OY 628 GAAACTGTGAGCTAGAGTGTGAGAGGGAATGAAATTTGAGGTGAGCGGTGAAATG 687
Db 604 AAAACTGACAGACTGAGATGTGTAAGGGTGTGGAATTTCTGTGTGACGGTGAATG 663
OY 688 CGTAGAGATCTGAGAGAAATACCGATGCGGACGAGCGACTTCTGGCATCATTAAGCACTG 747
Db 664 CGTAGATATGAGAGAAACACCAAGTGGCGAAGGCGACCACTGGACTGATTAAGCACTG 723
OY 748 AGGCTCGAAGCGGTGAGTGAAGAAACAGATTGATTCCTGTGATGTCACGCGCTAAAG 807
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OY 808 ATGTCTACTAGTGTGTGGGTCCCTTGAAGGACTTAAGTGAAGCACTTAACCAATTAAGTAGA 867
Db 784 ATGTCTACTAGTGTGTGGGTCCCTTGAAGGACTTAAGTGAAGCACTTAACCAATTAAGTAGA 843
OY 868 CGGCTGTGGGAGTACGGCCGCAAGGTTAAACTCAATGAAATTGACGCGGCGCCGACAA 927
Db 844 CGGCTGTGGGAGTACGGCCGCAAGGTTAAACTCAATGAAATTGACGCGGCGCCGACAA 903
OY 928 GCGGTGAGCACTGTGTTTAATTCAATGACAGCGGAAGAACTTACTGTGTTCGACATG 987

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Db      904 GCGGTGAGCATGTGTTTAATTGCAAGCAACCGGAAGAACTTACCAAGCCTTGACATC 963
Qy      988 CACAGATCTTGTAGAGATACAGAGAGTGCCTTGGGAAATTGTGATACAGTGTGTGATG 1047
Db      964 CAATGAACCTTCCAGAGATGATGATGGTGTCTTGGGAACTTTAGACAGGTGTGTGATG 1023
Qy      1048 CTGTGCTCAGCTGTGTGTGTGATGTGGTTAAGTCCCGCAACAGCGCAACCTTGT 1107
Db      1024 CTGTGCTCAGCTGTGTGTGTGATGTGGTTAAGTCCCGTATACAGAGCGCAACCTTGT 1083
Qy      1108 CCTTAATTACCAAGCAC- TTGGGTGGGAACTTTAGAGATATCTCCACGTACAAACTGAG 1166
Db      1084 CCTTAATTACCAAGCAAGTATGTTGGGCACTTTAGAGACATGCGGTGACAAACCGGAG 1143
Qy      1167 GAAAGGGGGGAGCAGCTCAAGTATGAGCCCTTACGACAGCGGTATACACAGCTGCTAC 1226
Db      1144 GAAAGGTGGGAGATGATGATCAAGTATGAGCCCTTACGAGCTGGGTATACACAGCTGCTAC 1203
Qy      1227 AATGTAGGTATACAGAGGGCAGCTACACAGCATGTATGCAATCTCAAAAAGCCTATG 1286
Db      1204 AATGTAGGTATACAGAGGGTGTGCAAGCCGAGAGTGTAGTATCCCAAAACGATG 1263
Qy      1287 TACTCAGATGTGAGTCTGCACTGCACTGCATGAAGTAAAGTACCTAGTAAATCGCGA 1346
Db      1264 TACTCAGATGTGAGTCTGCACTGCACTGCATGAAGTAAAGTACCTAGTAAATCGCGA 1323
Qy      1347 TCAGAAATGCGCGGTAAATACGTTCCGGGCTTGTACACACCGCCGTCACACCAATG 1406
Db      1324 TCAGAAATGCGCGGTAAATACGTTCCGGGCTTGTACACACCGCCGTCACACCAATG 1383
Qy      1407 AGTTGATTCACAGAGAGTGTAGCTTAA-CTTAGTGAAGGCGATACACAGCTGTGT 1465
Db      1384 AGTGGGTTCACAGAGAGTGTAGCTTAACTTGGGAGAGCGTTACACAGCTGTGT 1443
Qy      1466 CGATGACTGGGTTGAAGTGTAAAGTAAAGCTTGGGAGACCTGCGCTGTGATC 1523
Db      1444 TCATGACTGGGTTGAAGTGTAAAGTAAAGCTTGGGAGACCTGCGCTGTGATC 1501

RESULT 4
US-09-748-205-1
/ Sequence 1, Application US/09748205
/ Patent No. US200202253A1
/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polymyxin B lipopeptide and its manufacturing method, and microorganism
/ FILE REFERENCE: 4351009
/ CURRENT APPLICATION NUMBER: US/09/748,205
/ CURRENT FILING DATE: 2000-12-27
/ NUMBER OF SEQ ID NOS: 1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1
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Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1.6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Db      30 GCGCGAGGCTTAAACATGATGATGAGCGGAAAGATGATGCTTGTGCTAATTAAGCGTC 89
Qy      9 GCGCGAGGCTTAAACATGATGATGAGCGG--ATGACGGAGCTTGTCTCTGAATTA 66
Db      90 GAGCGAGGCTTAAACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 149
Qy      67 G---CGGCGAGCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 123
Db      150 GAAATCTGATTAATTAACCGCATTCG-CTACGGGAGAAAGAGGAGGATTAATGACCTTG 208
Qy      124 GAAAGGAGCGCTAATACCGCATTCGCTTACGGGAGAAAGAGGAGGAGCTTGGGCTTG 183
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Qy      209 CGCTATTAGATGAGCTTAAGTGCATTAAGTATGATGTGTGGGTAAAGGCTTACATGCG 268
Db      184 CGCTATTAGATGAGCTTAAGTGCATTAAGTATGATGTGTGGGTAAAGGCTTACATGCG 243
Qy      269 ACGATCTGATGCTGTGTGAGAGATGATCAAGCACACCGGAGCTGAGACAGCGCCGGA 328
Db      244 ACGATCTGATGCTGTGTGAGAGATGATCAAGCACACCGGAGCTGAGACAGCGCCGGA 303
Qy      329 CT-CTACGGGAGAGCAGCTGTGGGAAATTTGACAAATGAGGGAACCTTGAATCCAGCAT 387
Db      304 CTCTACGGGAGAGCAGCTGTGGGAAATTTGACAAATGAGGGAACCTTGAATCCAGCAT 363
Qy      388 GCGGCTGTGTGAAAGAGGCTTTTGTGTAAAGCACTTTAAAGCAGTGAAGAAAGCTCT 447
Db      364 GCGGCTGTGTGAAAGAGGCTTTTGTGTAAAGCACTTTAAAGCAGTGAAGAAAGGCTCT 423
Qy      448 TCGGTTAAATCCCGGAGAGATGACATTAGCTGAGAAATTAAGCACCGGCTTAACTGTG 507
Db      424 TAACTTAATACGTTAGTGTGTTTGAAGTAAAGCAAGAAATTAAGCACCGGCTTAACTGTG 483
Qy      508 CAGCAGCCGCGGTATTAAGAGGTGCAAGCTTAAATGGAATTAATGAGGCTTAAAGCA 567
Db      484 CAGCAGCCGCGGTATTAAGAGGTGCAAGCTTAAATGGAATTAATGAGGCTTAAAGCA 543
Qy      568 GCGTATGAGCTGTGATTAAGTCAAGTGTGAAATCCCGGAGCTTAACTGAGAACTGATCT 627
Db      544 GCGTATGAGCTGTGATTAAGTGTGAAATCCCGGAGCTTAACTGAGAACTGATCTGATTC 603
Qy      628 GAAACTGTTAGCTAGTATGATGAGGAGGAAATTTCAAGTGTAGCGGTGAATG 687
Db      604 AAAACTGCAAGCTAGTATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 663
Qy      688 CTTAAGATTCGAAGAAATCCGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 747
Db      664 CTTAAGATTCGAAGAAATCCGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 723
Qy      748 AGGCTCGAAAGGCTGTGATGAGCAAGATTAAGTATGATGATGATGATGATGATGATGATG 807
Db      724 AGGCTCGAAAGGCTGTGATGAGCAAGATTAAGTATGATGATGATGATGATGATGATGATG 783
Qy      808 ATGTCTACTAGTGTGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 867
Db      784 ATGTCTACTAGTGTGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 843
Qy      868 CCGCTGTGAGGAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 927
Db      844 CCGCTGTGAGGAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 903
Qy      928 GCGGTGAGCATGTGTTAAATTCGATGCAACGCAAGAACTTACCTGCTGTGATGATGAT 987
Db      904 GCGGTGAGCATGTGTTAAATTCGATGCAACGCAAGAACTTACCTGCTGTGATGATGATG 963
Qy      988 CACAGAACTTGTAGATGATGAGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1047
Db      964 CAATGAACCTTCCAGAGATGATGATGGTGTCTTGGGAACTTTAGAGACAGTGTCTCATG 1023
Qy      1048 CTGTGCTCAGCTGTGTGTGTGATGTGGTTAAGTCCCGTATACAGAGCGCAACCTTGT 1107
Db      1024 CTGTGCTCAGCTGTGTGTGTGATGTGGTTAAGTCCCGTATACAGAGCGCAACCTTGT 1083
Qy      1108 CCTTAATTACCAAGCAC- TTGGGTGGGAACTTTAGAGATATCTCCACGTACAAACTGAG 1166
Db      1084 CCTTAATTACCAAGCAAGTATGTTGGGCACTTTAGAGACATGCGGTGACAAACCGGAG 1143
Qy      1167 GAAAGGGGGGAGCAGCTCAAGTATGAGCCCTTACGACAGCGGTATACACAGCTGCTAC 1226
Db      1144 GAAAGGTGGGAGATGATGATCAAGTATGAGCCCTTACGAGCTGGGTATACACAGCTGCTAC 1203
Qy      1227 AATGTAGGTATACAGAGGGCAGCTACACAGCATGTATGCAATCTCAAAAAGCCTATG 1286
Db      1204 AATGTAGGTATACAGAGGGTGTGCAAGCCGAGAGGTGAGTAAATCCCAAAACGATG 1263
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OY      1287  TAGTCAGATTGGAGCTGCGCACTGCAGCTCCATGAAAGTAGGAATGCTGTAAATGCGGGA 1346
Db      1264  TAGTCCGAGTCGACAGCTGCAACTGCAGTGCCTGAAGTGGAAATGCTGTAAATGCGGAA 1323
OY      1347  TCAGATGCCCGCGGTGAATACGTTCCCGGCCCTTGACACACGCCCGCTCAGACCATGGG 1406
Db      1324  TCAGAAATGTCGGCGGTGAATACGTTCCCGGCCCTTGTAACAACCGCCCGTCAACCATGGG 1383
OY      1407  AGTTGATTGCACACAGAGTGTAGCTTAA-CTTAGTAGGGCGATCACACGCTGTGGT 1465
Db      1384  AGTGGATTGCACACAGAGTAGCTAGCTTAACCTTCGGGAGGACGCTTACACAGCTGTGAT 1443
OY      1466  CGATACCTGGGGGTGAAGTGTGAACAAGAGTACGCGTGAAGGAAACCTGCGCTGGATCAC 1523
Db      1444  TCATGATCGGGGTGAAGTGTGTACCAAGAGTAGCCGTAGGGGAACTGCGGCTGGATCAC 1501

RESULT 5
US-09-793-920A-1
/ Sequence 1, Application US/09793920A
/ Patent No. US20020065389A1
/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxyphenylalkanoic acid as
/ TITLE OF INVENTION: monomer unit, and method for producing the same.
/ FILE REFERENCE: 4396021
/ CURRENT APPLICATION NUMBER: US/09/793,920A
/ CURRENT FILING DATE: 2001-02-28
/ NUMBER OF SEQ ID NOS: 1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jesseni 161 strain.
US-09-793-920A-1

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Query Match	72.0%;	Score 1098.6;	DB 3;	Length 1501;
Beet Local Similarity	85.9%;	Pred. No. 1.6e-28;		
Matches 1287;	Conservative 0;	Mismatches 202;	Indels 9;	Gaps 6;
Qy	30	GGCGGAGGCTTAACATGACGCAAGTGGAGCGGAAAGATGATGACTTGCTATTAGGCGGC	89	
Db	9	GGCGGAGGCTTAACATGACGCAAGTGGAGCGG--ATGACGGGAGCTTGCTCTGAATTCA	66	
Qy	90	GAGCNGCCGAGCGGGTGAATTAATCTAGGAATCTACTAGTGGGGGATAGCTCGGG	149	
Db	67	G--CGGGGAGCGGGTGAATGCTTAGGAATCTCGCTGTGTGGGGGCAACGTC	123	
Qy	150	GAACTCGATTAAATACCGCATACGT-CTACGGGAGAAAGCAGGGGATCATTAAGCCTTG	208	
Db	124	GAAAGGAGGCTTAATACCGCATACGTCTTAACGGGAGAAAGCAGGGGACCTTGCGGGCTTG	183	
Qy	209	CGCTATTAGATGAGCCTTAAGTCGATTTAGCTAGATGCTGGGGTAAAGCCCTTACATGGCG	268	
Db	184	CGCTATCAGATGAGCCTTAGTGGATTAGCTAGTGTGGTAAATGGCTCACCAAGCG	243	
Qy	265	AGGATTTGATGCTGTCTGAGAGATGATCAGCCACCGGGACTGAGACCGGCCCGGA	328	
Db	244	AGGATTCGTTAACTGGTCTGAGAGATGATCAGCACTGGAACTGAGACCGGTCCAG	303	
Qy	329	CT-CTACGGGAGGACAGTGGGGAAATATGACANTGGGGGACCTGATCAGCCAT	387	
Db	304	CTCTTAACGGGAGGACAGTGGGGAAATATGACANTGGGGGACCTGATCAGCCAT	363	
Qy	388	GGCGCTGTGTGAAGAAGGCCCTTTGGTTGTAAGACCTTTAAGCAGTGAAGAAGACTCT	447	
Db	364	GGCGCTGTGTGAAGAAGGCTCTTCGATTTGTAAGACCTTTAAGTGGAGAGAAGGCAT	423	
Qy	448	TCGGTTAATACCGGGGAGCATGATCATTAAGCTGCAGATAAGCACCGGCTAACTGTGC	507	
Db	424	TAACTTAATACGTTAGTGTGTTGACGTTACGACAGATAAGCACCGGCTAACTGTGC	483	
Qy	508	CAGCAGCCGCGGTTAATACAGAGGTGCAGCGTTAATCGAATTAATCTGGCGTTAAAGCGA	567	

D	484	CAGCAGCCGGCTAATTACAGAGGGGTGCAAGGCTTAATCGAAATTACTGGGCGTAAAGCGC	543
Q	588	GCGTAGGTGGCTTGAATTAAGTCAAGATGTGAAATCCCCGGGCTTAACCTGGGAACGTGACCT	627
D	544	GCGTAGGTGGCTTGAATTAAGTGAATGTGAAACCCCGGGCTCAACCTGGGAACGTGATTC	603
Q	628	GAACCTGTAAAGCTAGAGTGGTGAAGAGGGAAGTGAATTTTCAAGTGTAGCGGTGAATG	687
D	604	AAAACTTGACAACTGATGATGATGTGTAGAGGGGTGTGAAATTTCTGTGTAGCGGTGAATG	663
Q	688	CGTAGAGATCTGAAGAAATACCGATGGCGAAGCGAGCTTCTGGCATCATCTAGACATG	747
D	664	CGTAGATATTAGGAAGGAACACCAAGTGGCGAAGCGCACCTGAGCTGATTATCGACATG	723
Q	748	AGGCTCGAAAGGTGGGTGAGCAACACGATTTAGTATCTCTGGTAGTCCACCGCTGAAACG	807
D	724	AGGTGCGAAAGGTGGGTGAGCAACACGATTTAGTATCTCTGGTAGTCCACCGCTGAAACG	783
Q	808	ATGTCTACTAGTCTGTGGGTCCCTTGAGGAGCTTAGTGAACGAGCTTAACCAATTAATGAG	867
D	784	ATGTCAACTAGTCCCTTGGGAGGCTTGAAGTCTTAGTGGGCGAGCTTAACCAATTAATGAG	843
Q	868	CCGCTGTGGGAGTACGCGCGCAAGGTTAAACTCAATGATTTGACGAGGGGCCGACAA	927
D	844	CCGCTGTGGGAGTACGCGCGCAAGGTTAAACTCAATGATTTGACGAGGGGCCGACAA	903
Q	928	GCGGTGAGAGCATGTGGTTTAATTTCCATGCAACGCCAAGAACTTACTGTCTTTGACATA	987
D	904	GCGGTGAGAGCATGTGGTTTAATTTCCAAAGCAACGCCAAGAACTTACTGTGTGACATC	963
Q	988	CACAGAACTTTGTAGAGATACAGAGAGTGCCTTCGGGAATTGTGATACAGGTGCTGATGG	1044
D	964	CAATBACTTTTCAAGATGATGATGGGTGCTTCGGGAACATTGAGACAGGTGCTGATGG	1020
Q	1048	CTGTGTCAGCTCGTGTGCTGAGATGTTGGTTAACTCCGCAACGAGCGCAACCTTGT	1104
D	1024	CTGTGTCAGCTCGTGTGCTGAGATGTTGGTTAACTCCGTAACGAGCGCAACCTTGT	1080
Q	1108	CCTTAGTTACACAGCAC-TTCGGGTGGGAACCTAAGAGATATCTCCAGTGAACAACTGGAG	1166
D	1084	CCTTAGTTACACAGCAGTATATGTGGGCACTCTAAGAGAACCTCCGGTGAACAAACCGAG	1144
Q	1167	GAAGCGGGGAGCAGAGTCAAGTCATCATATGGCCCTTACGACACAGGGCTATACACAGTCTAC	1222
D	1144	GAAGGTGGGAGTGAAGTCAAGTCATCATATGGCCCTTACGAGCTTGGGCTTACACAGTCTAC	1200
Q	1227	AATGTAGTACAGAGGGCAGCTACACAGCGATGTGATCGAATCTCAAAAAGCTATCG	1288
D	1204	AATGTAGTACAGAGGGGTGCAAGCGCGAGAGTGAAGTAACTCCACAAAACGATCG	1264
Q	1287	TAGTCCAGATTGGAAGTCTTGCAACTGCACTTCATGAAGTGAAGTGGTATGCTAGTAATCGCGGA	1344
D	1264	TAGTCCGATTCACAGTCTTGCAACTGCACTGCGTGAAGTGGGAATCCCTAGTAAATCGGGA	1320
Q	1347	TCAGAGTGGCGGGTGAATACGTTCCCGGGCCCTTGACACACCGCCGTCACACCAATGGG	1404
D	1324	TCAGAAATGTCGGGGTGAATACGTTCCCGGGCCCTTGACACACCGCCGTCACACATGGG	1380
Q	1407	AGTTGATTGACACAGAAAGTGTAGGCTTAA-CTTAGTGAAGGGGATCACCAAGGTGTGGT	1468
D	1384	AGTGGATTGACACAGAAAGTGTAGGCTTAACTTCCGAGAGAGGTTAACACAGGTGTGGT	1444
Q	1466	CGATGACTGGGGTGAAGTGTATCAACAGGTAGCGCTTAGGGGAACCTGCGGTGATCAC	1523
D	1444	TCATGACTGGGGTGAAGTGTATCAACAGGTAGCGCTTAGGGGAACCTGCGGTGATCAC	1501

RESULT 6
US-09-951-720-1
; Sequence 1, Application US/09951720
; Patent No. US20020160467A1
; GENERAL INFORMATION:
; APPLICANT: Canon Kabushiki Kaisha

Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;					
Qy	30	GGCGCAGGCTTAACATGCAAGTGCAGCGGAAAGATAGCTTGTATTAGCCGC	89		
Db	9	GGCGCAGGCTTAACATGCAAGTGCAGCGG--ATGACGGAGCTTGTCTCGAATTCA	66		
Qy	90	GAGCAGCGGAGCGGAGTAACTTAAGTAATCTAAGTATAGTGGGATAGCTCGGG	149		
Db	67	G---CGGCGAGCGGAGTAACTTGCCTAGGAATCTGCTTGATAGTGGGAGCAACGCTC	123		
Qy	150	GAAGCTCGAATTAAATACCGCATACGT-CTACGGGAGAAAGACAGGGGATCATTAAGCCTTG	208		
Db	124	GAAGGAGACGCTTAATACCGCATACGTCCTACGGGAGAAAGACAGGGGACCTTGCGGCTTG	183		
Qy	209	CGCTATTAGATAGCCTTAAGTGGATAGCTAGATAGTGGGATTAAGGCTTACATGGG	268		
Db	184	CGCTATCAGATAGCCTTAGTGGTGGATTAAGTGGATTAAGGCTTACCAAGGGG	243		
Qy	269	AGGATCTGAGTGGTCTGAGAGGATGATCAGCAACCGGGGCTGAGACGGGCGCGGA	328		
Db	244	AGGATCTGAGTGGTCTGAGAGGATGATCAGCACTGGAATGAGACGGTTCAGA	303		
Qy	329	CT-CTACGGGAGGACAGCAGTGGGGAATTGGAACAATGGAGGAACTTGATCCAGCCAT	387		
Db	304	CTCTTACGGGAGGACAGCAGTGGGGAATTGGAACAATGGGCGAAAGCTTGATCCAGCCAT	363		
Qy	388	GGCGGCTGTGTGAAGAGGCTTTTGGTGTAAAGCATTTTAAAGCATGAAGAACTCT	447		
Db	364	GGCGGCTGTGTGAAGAGGCTTTTGGTGTAAAGCATTTTAAAGTGGAGGAAAGGCAAT	423		
Qy	448	TGGGTTAAATCCGGGGAGCATGACATTAAGCTGCACAATAAGACCGGCTAACTCTGTGC	507		
Db	424	TAACTTAATACGTTAGTGTGTGTGACGTTACCGACAAATAAGACCGGCTAACTCTGTGC	483		
Qy	508	CAGCAGCCGCGGTAATACAGAGGGTGCAGAGCTTAATCCGAATTATCGGCGCTAAAGCA	567		
Db	484	CAGCAGCCGCGGTAATACAGAGGGTGCAGAGCTTAATCCGAATTATCGGCGCTAAAGCCG	543		
Qy	568	GGGTAGTGGCTTGATTAAGTCAAGATGTGAATCCCGGGCTTAACTGCGGAACTGCATCT	627		
Db	544	GGGTAGTGGCTTGATTAAGTGTGATGTGAAGAGCCCGGGCTCAACTGCGGAACTGCATCT	603		
Qy	628	GAACCTGTTAGGCTTAAGTATAGTGAAGGGAAGTAATTCAGAGTGTAGCGGTGAAGT	687		
Db	604	AAAACTGACAACTTAAGTATAGTGAAGGGTGTGAAATTTCTGTGTAGCGGTGAAGT	663		
Qy	688	CGTAGAGTCTGAAGGAATACGATGGCGAAGGACGTTCTGCGCATCACTGACACTG	747		
Db	664	CGTAGATTAAGGAAGGAACACAGTGGCGAAGGCGACCTTGATCTGATCTGACACTG	723		
Qy	748	AGGCTCGAAAAGCTGGGTAGCAAAACAGATTAGTAATCCCTGTAGTCCAGCCGTAACG	807		
Db	724	AGGTGGAAAAGCTGGGGAGCAAAACAGATTAGTAATCCCTGTAGTCCAGCCGTAACG	783		
Qy	808	ATGTCTACTAGTGTGGTCCCTTGAGCACTTAAGTACGCAAGCTTAACGCAATTAAGTGA	867		
Db	784	ATGTCAACTAGCGGTGGAGCCTTGAGCTCTTAAGTGGCCCACTAACGCAATTAAGTGA	843		
Qy	868	CGGCTGGGGAAGTACCGGCGCAAGTTAACTCAATGAATTAAGCGGGGGCCGCGCA	927		
Db	844	CGGCTGGGGAAGTACCGGCGCAAGTTAACTCAATGAATTAAGCGGGGGCCGCGCA	903		
Qy	928	GGCGTGGAGATGTGTTTAATTGATGCAACGCGAAGAACTTACTGTCTTTCATTA	987		
Db	904	GGCGTGGAGATGTGTTTAATTGATGCAACGCGAAGAACTTACCAAGGCTTTCATCATC	963		
Qy	988	CACAGAACTTTGTAGATACGAGAGTCCCTTGGGGAATTGTGTATACAGGTCTGCATGG	1047		
Db	964	CAATGAACCTTTCCAGAGATGATGAGTGGCTTCCGGGAACATTTGAGAGAGGTGTGCATGG	1023		
Qy	1048	CTGTCTGACGCTGTGTGTGAGATGTTGGGTTAAGTCCGCGCAACGAGCGCAACCTCTGT	1107		
Db	1024	CTGTCTGACGCTGTGTGTGAGATGTTGGGTTAAGTCCGCTAACGAGCGCAACCTCTGT	1083		

Qy	1108	CCTTAGTACACAGCAC-TTCGGGTGGAACTTAAAGATATCTGCCAGTGACAACTGAG	1166		
Db	1084	CCTTAGTACACAGCACAGTAATGTGGGCACTTAAAGAGACTGGCGGTGACAAACGGAG	1143		
Qy	1167	GAAGCGGGGAGCAGCGTCAAGTATCATGAGCCCTTTACGACAGGGCTACACAGTCTAC	1226		
Db	1144	GAAGTGGGGAATGAGCTCAAGTCAATGAGCCCTTACCGGCTTGAGCTACACAGTCTAC	1203		
Qy	1227	AATGTAGTACAGAGGGGAGCTTACACAGCGATGTGATGCGAATCCAAAAGCCATAG	1286		
Db	1204	AATGTGTGTACAGAGGGTGTGCAAGCCGCGAGTGGAGCTTAATCCAAAGCCGATG	1263		
Qy	1287	TAGTCAGATTGAGTCTGCACTGCACTCAATGAATGAGATGCTTAAATCGCGGA	1346		
Db	1264	TAGTCAGATTGCACTGCACTGCACTGCAATGAGTGGATGCGTATGTAATGCGGA	1323		
Qy	1347	TCGAAATGCGCGGTGAATACGTTCCGGGCTTTGACACACCGCCCTGACACCATGGG	1406		
Db	1324	TCGAAATGCGCGGTGAATACGTTCCGGGCTTTGACACACCGCCCTGACACCATGGG	1383		
Qy	1407	AGTTGATTCACACAGAGTGTAGCTTAA-CTTAGTGAAGGCGATACACAGGTGTGAT	1465		
Db	1384	AGTGGTTCACACAGAGTGTAGCTTAACTTCCGGGAGACGTTACACAGGTGTGAT	1443		
Qy	1466	CGATGACTGGGGTGAAGTGTAAACAAGTACCGTACGGGGAACCTTGGCTGATCAC	1523		
Db	1444	TCATGACTGGGGTGAAGTGTAAACAAGTACCGTACGGGGAACCTTGGCTGATCAC	1501		

RESULT 8
US-10-218-519-5
Sequence 5, Application US/10218519
Publication No. US20030049806A1
GENERAL INFORMATION:
APPLICANT: Yano, Tetsuya
APPLICANT: Imamura, Takeshi
APPLICANT: Suda, Sakae
TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
FILE REFERENCE: 03500.015225.1
CURRENT APPLICATION NUMBER: US/10/218,519
CURRENT FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/821,016
PRIOR FILING DATE: 2001-03-30
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Microsoft Word
SEQ ID NO 5
LENGTH: 1501
TYPE: DNA
ORGANISM: Pseudomonas jessenii p161 ; BP-7376
FEATURE:
FEATURE: cDNA to 16S rRNA
US-10-218-519-5

Query Match 72.0%; Score 1098.6; DB 5; Length 1501;					
Best Local Similarity 85.9%; Pired. No. 1,6e-288;					
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;					
Qy	30	GGCGCAGGCTTAACATGCAAGTGCAGCGGAAAGATAGCTTGTATTAGCCGC	89		
Db	9	GGCGCAGGCTTAACATGCAAGTGCAGCGG--ATGACGGAGCTTGTCTCGAATTCA	66		
Qy	90	GAGCAGCGGAGCGGAGTAACTTAAGTAATCTAAGTATAGTGGGATAGCTCGGG	149		
Db	67	G---CGGCGAGCGGAGTAACTTGCCTAGGAATCTGCTTGATAGTGGGAGCAACGCTC	123		
Qy	150	GAAGCTCGAATTAAATACCGCATACGT-CTACGGGAGAAAGACAGGGGATCATTAAGCCTTG	208		
Db	124	GAAGGAGACGCTTAATACCGCATACGTCCTACGGGAGAAAGACAGGGGACCTTGCGGCTTG	183		
Qy	209	CGCTATTAGATAGCCTTAAGTGGATAGCTAGATAGTGGGATTAAGGCTTACATGGG	268		

Db	184	CGCCTATCAGATTAAGCCTTAGCTCGGATTAGCTAGTGGTGAAGTAATGGCTACCAAGCG	243
OY	269	ACGATCTGTAGCTGTCTTGAGAGATGATCAGCCACACCGGGACTGAGACAGGCGCGGA	328
Db	244	ACGATCCCGTAATCTGGCTTGAGAGATGATCAGTCACTGGAATGAGACACGGTCCAGA	303
OY	329	CT-CTAACGGGAGGCGAGCTGGGGAAATTATGGACAATGGNGGAACCTTGATCCAGCCT	387
Db	304	CTCTTACGGGAGGCGAGCAGTGGGGAATATTGGAACAATGGCCAAAGCCCTGATCCAGCAT	363
OY	388	GGCGGTGTGTGAATAAGGCTTTTGTGTGAAGCACTTTTAAGCAGTGAAGAAGACTCT	447
Db	364	GGCGGTGTGTGAAGAAGSTCTTCGGATTGTAAACACTTTAATGTTGGAGGAAGGCACT	423
OY	448	TCGGTAATATCCCGGGGACGATGACATTAGCTGCAGAAATAGCACCGCGTAACTCTGTGC	507
Db	424	TAACTTAATACSTTAGTGTGTTTGAAGTTACGATTAACGAAATTAAGCACCGGCTAACTGTGC	483
OY	508	CAGCAGCCGCGGTAAATACAGAGGGTGCAGAGCTTAATCGGAATTACTGGGCGTAAAGCA	567
Db	484	CAGCAGCCGCGGTAAATACAGAGGGTGCAGAGCTTAATCGGAATTACTGGGCGTAAAGCGC	543
OY	568	GGTAGTAGGCTTGATTAAGTCAGATGTGAATCCCGGGCTTAACCTGGGAACCTGACTCT	627
Db	544	GGTAGTAGGCTTTGTTTAAGTGGATGTGAAGCCCGGGCTTAACCTGGGAACCTGACTTC	603
OY	628	GAATCTGTAGGCTAGAGTAGGTGAGAGGAAGTAGAATTCAGGTGTAGCGGTGAATG	687
Db	604	AAATCTGAACAAGCTAGAGTAGGTGAGAGGTGTGGAATTCCTGTGTAGCGGTGAATG	663
OY	668	CGTAAGATCTTAAGGAATACCGATGGCGAAGCAGCTTCCTGCACTACTGACACTG	747
Db	664	CGTAATATTAAGAAAGAACACCAAGTGGCCAGGCGACCACTGGACTGATCTGACACTG	723
OY	748	AGGCTCGAAAGGTGGGTAGCAAAACAGATTGATACCCTGGTAGCCACGCGCGTAAGCG	807
Db	724	AGGTGCGAAAGGTGGGGAGCAAAACAGATTGATACCCTGGTAGCCACGCGCGTAAGCG	783
OY	808	ATGTCTACTAGTGTGTGGGTCCCTTGAGGACTTAGTGAACGACGTAAACGCAATAAGTGA	867
Db	784	ATGTCAACTAGCGTGTGGAGGCTTGAGGCTTTAGTGGGAGGCTTAACGCAATAAGTGA	843
OY	868	CCGCTGGGGAGTACGGCCGCAAGTTAAACTCAAATGAATTGACGGGGGCGCGACAA	927
Db	844	CCGCTGGGGAGTACGGCCGCGCAAGGTTAAACTCAAATGAATTGACGGGGGCGCGACAA	903
OY	928	GGGGTGGAGCATGTGTTTAATTCGATGGAAGCGGAAAGAACTTACTGTCTTGAACATA	987
Db	904	GGGGTGGAGCATGTGTATTAATTCGAAGGAAGCAAGAACTTACTCAAGGCTTTGAACATC	963
OY	988	CACAGAACTTGTAGAGATACAGAGAGTGCTTCGGGAATTGATATACAGTCTGCTCATG	1047
Db	964	CAATBAACTTTCCABAAGATGATGGGTGCTTCGGGAACATTGAACAGGTCTGCTCATG	1022
OY	1048	CTGTCTGTAAGCTCGTGTGCTGAGATGTTGGTTAATGTCGCCGCAAGGCGCAACCTTGT	1107
Db	1024	CTGTCTGTAAGCTCGTGTGCTGAGATGTTGGTTAATGTCGCCGTAAGAGGCGCAACCTTGT	1083
OY	1108	CCTTAGTTAACAGGAC-ITTCGGGTGGAACTTTAAGGATACCTGCCAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTAACAGGACGTTAATGTGTGGGACTTTAAGGAGACTGCGGTGAACAAACCGGAG	1143
OY	1167	GAAGCGGGGAGCAGCTCAAGTCAATAGGCCCTTACAGACAGGGCTACACAGCTGCTAC	1222
Db	1144	GAAGGTGGGGATGAGCTCAAGTCAATAGGCCCTTACAGGCTTACAGCTGCTGCTAC	1203
OY	1227	AATGTAGGTACAGAGGGCAGCTACACAGCGATGTGATGCGAATCTCAAAAAGCCTATCG	1286
Db	1204	AATGTTCGGTACAGAGGGTTCGCAAGCGCGGAGGTGAGGCTAATCCCAAAAACGATCG	1265
OY	1287	TAGTTCGAATTTGAGAGTCTTGCACTGCACTCATGAATGAAGATGCTAATATGCGGA	1346
Db	1264	TAGTTCGGAATCCAGATCTTGCACTGCACTGCACTGCAATGCGAATGCTAATATGCGCA	1323

QY	1347	TCGAATGCGCGGTGAATACGTTCCCGGCGCTTGTAACACCGCCCGTCAACCATGGG	1406
DB	1324	TCGAATGCGCGGTGAATACGTTCCCGGCGCTTGTAACACCGCCCGTCAACCATGGG	1383
QY	1407	AGTGAATGCAACAGAGGTGTTAGCTTA-CTTAGAGAGGGATACACCGGTGTCG	1465
DB	1384	AGTGAATGCAACAGAGGTGTTAGCTTA-CTTAGAGAGGGATACACCGGTGTCG	1443
QY	1466	CGATGACTGGGGTGAAGTCTGAACAGTAGCCGTAGGGGAACTCGGCTGATCAC	1523
DB	1444	TCATGACTGGGGTGAAGTCTGAACAGTAGCCGTAGGGGAACTCGGCTGATCAC	1501
RESULT 9			
US-10-266-787-5			
Sequence 5, Application US/10266787			
Publication No. US20030082777A1			
GENERAL INFORMATION:			
APPLICANT: Yano, Tetsuya			
APPLICANT: Imamura, Takeshi			
APPLICANT: Suda, Sakae			
APPLICANT: Honma, Tsutomu			
TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme			
FILE REFERENCE: 03500.015225.3			
CURRENT APPLICATION NUMBER: US/10/266, 787			
CURRENT FILING DATE: 2002-10-09			
PRIOR APPLICATION NUMBER: JP 2000-095004			
PRIOR FILING DATE: 2000-03-30			
NUMBER OF SEQ ID NOS: 11			
SOFTWARE: Microsoft Word			
SEQ ID NO 5			
LENGTH: 1501			
TYPE: DNA			
ORGANISM: Pseudomonas jesseni P161 ; BP-7376			
FEATURE:			
FEATURE: cDNA to 16S rRNA			
US-10-266-787-5			
Query Match 72.0% ; Score 1098.6 ; DB 5 ; Length 1501 ;			
Best Local Similarity 85.9% ; Pred. No. 1.6e-288 ;			
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6 ;			
QY	30	GGCGGAGGCTTAACACATGACGACGAGCGGAAAGATGATGCTTGAATGAGCGTC	89
DB	9	GGCGGAGGCTTAACACATGACGAGCGG--AAGACGGAGCTTGCCTGAATTCA	66
QY	90	GAGNCGCGGACGGGTGAATTAATTAGGAATCTAAGTATGTTGGGGATGACTCGGG	149
DB	67	G---CGGCGGACGGGTGAATTAATTAGGAATCTAAGTATGTTGGGGGAAACGCTTC	123
QY	150	GAAATCGAATTAATACCGCATACG-CTACGGGAAAGACAGGGGTCAATTGACCTTG	208
DB	124	GAAAGGAGCGCTTAATACCGCATACGCTTAACGGGAAAGACAGGGGCTTTCGGCCCTTG	183
QY	209	CGCTATTAGATGAGCTTAAGTGCATTAAGTATGATGTTGGGTTAAAGGCTTACCATGGCG	268
DB	184	CGCTATTAGATGAGCTTAAGTGCATTAAGTATGATGTTGGGTTAAAGGCTTACCATGGCG	243
QY	269	ACGATCTGTAGCTGTCTTGAGAGATGATCAACCAACCGGGACTGAGACACGGCCCGGA	328
DB	244	ACGATCTGTAGCTGTCTTGAGAGATGATCAACCAACCTGGAACCTGAGACACGGTCCAGA	303
QY	329	CT-CTACGGGAGGAGCAGTGGGGAAATTGACAAATGAGGAAACCTGATCCAGCCAT	387
DB	304	CTCTACGGGAGGAGCAGTGGGGAAATTGACAAATGAGGAGCTTATCCAGCCAT	363
QY	388	GCCGCGTGTGAGAAAGGCTTTTGTGTGAAGCACTTTAAGCAGTGAAGAGACTCT	447
DB	364	GCCGCGTGTGAGAAAGGCTTTTGTGTGAAGCACTTTAAGCAGTGAAGAGGACTCT	423
QY	448	TGCTTAATACCCCGGAGCAGATGATTAAGCTGAGAAATTAAGCACCAGCTTAAGCTGTGC	507

Db	424	TAACTTAATACGTTAGTGTGTTTGAACGTTAACCGACAGAAATTAAGCAACGGGCTAACTGTGC	483
Qy	508	CAGCAGCCCGCGTAACTACAGAGGGTGCAGCGTTAACTGGAATTACTGGCGTAAAGGA	567
Db	484	CAGCAGCCCGCGTAACTACAGAGGGTGCAGCGTTAACTGGAATTACTGGCGTAAAGGC	543
Qy	568	GCGTAGGGGCGTTGATTAAGTCAGATGTGAAATCCCGGGCTTAACCTGGGAACTGCATCT	627
Db	544	GCGTAGGGGCTTGTTAAGTTGGAGTGAAGCCCGGGCTTCACCTTGGAACTGCAATTC	603
Qy	628	GAACCTGTAGGCTAGAGTAGGTGAGAGGAGTAGAATTTCAAGTGTAGCGGTGAATG	687
Db	604	AAAATGACAAAGCTAGAGTATGTGTAGAGGGGTGTGGAATTTCTGTGTAGCGGTGAATG	663
Qy	688	CGTAGAGATCTGAAGGAATACCAGTGGCGAAGGCAGCTTCTGTGCATCATCTGCACCTG	747
Db	664	CGTAGATATTAGGAAGGAACACCAAGTGGCGAAGGCCAACCACTGCATGATCTGCACCTG	723
Qy	748	AGGCTCGGAACGCTGGGTAGCAAAAGAGATTAGATACCCTGTGTATCCAGCCCGTAAACG	807
Db	724	AGGTGCGAAAGCGTGGGAGCAAAAGAGATTAGATACCCTGTGTATCCAGCCCGTAAACG	783
Qy	808	ATGTCTACTAGTCGTTGGGTCCTCTTGAAGACTTAAGTGAACGCACTTAACGCAATAAGTGA	867
Db	784	ATGTCAACTAGCCCGTGTGGAGCCTTGACCTCTTAATGGCCGACGCTAAAGCAATTAAGTGA	843
Qy	868	CCGCTGGGGAGTAGCGGCCCGCAAGGTTAAACTCAATGAATTGACGGGGGCCGCAAA	927
Db	844	CCGCTGGGGAGTAGCGGCCCGCAAGGTTAAACTCAATGAATTGACGGGGGCCGCAAA	903
Qy	928	GCGGTGAGCATGTGTGTTAATTCATGTCAACGCGAAGAACCTTAACCTGTCTTGAACATA	987
Db	904	GCGGTGAGCATGTGTGTTAATTCGAACCAACGCGAAGAACCTTAACGAGCCTTGAACATC	963
Qy	988	CACAGAACTTGTAGAGATTACGAGAGTGTGCTTCGGGAAATTGATACAGTGTCTCATG	1047
Db	964	CAATGAACCTTCTCAAGATGTGATGGGTGCTTCGGGAACTTGAACAGAGTGTCTCATG	1022
Qy	1048	CTGTCTCAGCTCGTGTGCTGAGATGTTGGGTTAAGTCCCGCAAGAGCGCAACCTTGT	1107
Db	1024	CTGTCTCAGCTCGTGTGCTGAGATGTTGGGTTAAGTCCCGTAAAGAGGCGCAACCTTGT	1083
Qy	1108	CCTTAAGTTAACGACAC-TTCGGGTGGAACTTAAGATATCTGCCAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTAACGACAGCTAATGTGTGGGCACTTAAGAGACCTGCCGTGACAAACCGGAG	1143
Qy	1167	GAAGCGGGGAGAGAGTCAAGTCATATGAGCCCTTAACGACAGGGGCTACACAGTGTAC	1222
Db	1144	GAAGGTGGGAGAGAGTCAAGTCATATGAGCCCTTAAGAGAGCTGTGCTACACAGTGTAC	1207
Qy	1227	AATGTAGGTACAGAGGGCAGCTTACACAGCGATGTGATGCGAATCTCAAAAAGCTTATCG	1286
Db	1204	AATGTTCGGTACAGAGGGGTGTCCAAAGCCGCGAGGTGAGCTAATCCCAAAAACGATCG	1263
Qy	1287	TAGTCCAGATTGAGAGTCTTGCAACTGCACTCAATGAATGGAATGCTAATATGCGGGA	1346
Db	1264	TAGTCCGGAATCCAGATCTTGCAACTGCACTGCTGAAGTGCGAATGCTAGTAATGCGGGA	1322
Qy	1347	TCAGAAATGCGCGGGTGAATACGTTCCCGGGCCCTTGATACACAGCCCGTCAACATATGG	1406
Db	1324	TCAGAAATGTGCGGGTGAATACGTTCCCGGGCCCTTGATACACAGCCCGTCAACATATGG	1382
Qy	1407	AGTTGATTGCAACAGAAAGTGTAGTAACTTA-CTTAGTGAAGGCGATACACAGTGTGGT	1466
Db	1384	AGTGGGTTGCAACAGAAAGTACGTAGTAACTTTCGGAGAGACGGTTACACAGGTGTGAT	1443
Qy	1466	CGATGACTGGGGTGAAGTGTGAACAGAGGTAGCCCTTAGAGGGAACTTGGCGTGGATCAC	1523
Db	1444	TCATGACTGGGGTGAAGTGTGTACCAAGGTAGCCGTAGGGGAACTTGGCGTGGATCAC	1501

[illegible]


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Db      664 CGTAGATATAGAGAGAACACAGTGCAGAGCGACCACTGAGCTGATGACACTG 723
QY      748 AGGCTGAAAGCGTGGGTGCAAAACAGAGATTAGATACCTCGTAGTCCAGCGCTAAAG 807
Db      724 AGGTGCAAAAGCCTGGGAGCAACAGATTAGATACCTGCTAGTCCAGCGCTAAAG 783
QY      808 ATGTCTACTAGTCTGTGGGTCCCTTAGAGACTTATGACGACGCTAACCAATTAAGTAG 867
Db      784 ATGTCAATAGCCGTTGGGAGCCTTAGGCTTATAGTGGGAGCTTAAGCAATTAAGTTGA 843
QY      868 CGGCTCGGGAGTAGACGCGCGCAAGGTTAAAACCTCAATATTAATGACGGGGGCCGACAA 927
Db      844 CGGCTCGGGAGTAGACGCGCGCAAGGTTAAAACCTCAATATTAATGACGGGGGCCGACAA 903
QY      928 GCGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCTGCTGTGACATA 987
Db      904 GCGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCAAGCCTTGAATC 963
QY      988 CACAGATCTGTAGAGATACAGAGAGTGCCTTCGGGAATTGTGATACAGGTGCTGCATG 1047
Db      964 CATGAACCTTCCAGAGATGAGATGGGTGCTTCGGGAACATTGAGACAGGTGCTGCATG 1023
QY      1048 CTGTCTCAGCTCTGTCTGTGAGATGTTGGGTTAAGTCCGCAACGAGCGCAACCTTGT 1107
Db      1024 CTGTCTCAGCTCTGTCTGTGAGATGTTGGGTTAAGTCCGTAACGAGCGCAACCTTGT 1083
QY      1108 CCTTACTTACAGCAC-TTCCGGGTGGGAACCTTAAGGATTAAGCCAGTGAACAACTGAG 1166
Db      1084 CCTTACTTACAGCACGTAATGTTGGGCACTTAAGGAGACTGCGGTGACAAACGAGAG 1143
QY      1167 GAAGCGGGAGACAGCTCAAGTCATGATGACCCTTACGACAGAGGCTACACAGTGTAC 1226
Db      1144 GAAGGTGGGAGTAGACGTCAAGTCATGATGACCCTTACGAGCTGGGCTACACAGTGTAC 1203
QY      1227 AATGTAGGTACAGAGGCGACGTACACAGGATGTATGCGAATCTCAAAAACCTATG 1286
Db      1204 AATGTGCGGTACAGAGGCTTGCACAGCCGAGGTGAGCTATCCCAAAAACCTATG 1263
QY      1287 TAGTCCAGATTGGAATCTGCAACTGCATCCATGAAGTAGGAATGCTGTATGCGGGA 1346
Db      1264 TAGTCCGAGATCGAGTCTGCAACTGCATGCGTGAAGTGGAAATCCCTAGTATCCGAA 1323
QY      1347 TCAGAAATGCGCGGTGAATACGTTCCGGGCTTGTACACACGCGCTACACCATGAG 1406
Db      1324 TCAGAAATGCGCGGTGAATACGTTCCGGGCTTGTACACACGCGCTACACCATGAG 1383
QY      1407 AGTTGATTGCAACCAAGATGTTAGCTTA-CTTATGAGGGGATCACACGCTGTGAT 1465
Db      1384 AGTGGGTTGCAACCAAGATGTTAGCTTAACCTTCGGAGAGACGGTTACACGCTGTGAT 1443
QY      1466 CGATGACTGGGGTAGTGTGTAACAAGTAGCCGTAGGGGAACTGCGGCTGGATCAC 1523
Db      1444 TCATGACTGGGGTAGTGTGTAACAAGTAGCCGTAGGGGAACTGCGGCTGGATCAC 1501

RESULT 11
US-10-105-305-1
; Sequence 1, Application US/10105305
; Publication No. US20030096182A1
; GENERAL INFORMATION:
; APPLICANT: CANON KAISHI KAISHA
; TITLE OF INVENTION: POLYHYDROXYALKANATE CONTAINING UNIT WITH THIENYL STRUCTURE IN TH
; TITLE OF INVENTION: CHAIN PROCESS FOR ITS PRODUCTION, CHARGE CONTROL AGENT, TONER E
; TITLE OF INVENTION: TONER WHICH CONSTRAIN THIS POLYHYDROXYALKANATE, AND IMAGE-FORMING
; TITLE OF INVENTION: IMAGE-FORMING APPARATUS WHICH MAKE USE OF THE TONER
; FILE REFERENCE: CFO16309
; CURRENT APPLICATION NUMBER: US/10/105,305
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: JP 2001-090026, JP 2001-133551
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
```

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; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-10-105-305-1
Query Match      72.0%; Score 1098.6; DB 5; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1.6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY      30 GCGCGCAGGCTTAACATACATGCAAGTCGAGCGGAAACGATGATAGCTGCTATTAAGCCGC 89
Db      9 GCGCGCAGGCTTAACATACATGCAAGTCGAGCGGAAACGATGATAGCTGCTATTAAGCCGC 66
QY      90 GAGCAGCGGAGCGGTGAGTATTAATTAAGTATTAATTAAGTATTAAGTATTAAGTATTAAG 149
Db      67 G---CGGGGAGCGGTGAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAG 123
QY      150 GAAATCTGAATTAATACCGCATACGT-CTACGGGAGAAAGCAGGGGATCATTAAGACCTTG 208
Db      124 GAAAGGAGCGCTAAATACCGCATACGTCTACCGGAGAAAGCAGGGGACCTTCGGGCTTG 183
QY      209 CGCTATTGATGAGCCTAAGTGCATTAAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAG 268
Db      184 CGCTATCAGATGAGCCTAAGTGCATTAAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAG 243
QY      269 ACGATCTGATGCTGTGAGAGATGATCAAGCCACACCGGAGCTGAGACACGCGCCGGA 328
Db      244 ACGATCCGTAATCTGCTGAGAGATGATCAAGTCACATGGAACAGAGACAGCTGTCAGA 303
QY      329 CT-CTACGGGAGGCGACAGTGGGAAATTTGGACATATGAGGAAACCTGATCCAGCCAT 387
Db      304 CTCCTACGGGAGGCGACAGTGGGAAATTTGGACATATGAGGCGAAAGCCTGATCCAGCCAT 363
QY      388 GCCGCGTGTGTAAGAAAGGCGCTTTGTTGTAAGACACTTTAAGCAGTGAAGAAAGCTGT 447
Db      364 GCCGCGTGTGTAAGAAAGGCTTTGTTGTAAGACACTTTAAGCAGTGAAGAAAGGCTGT 423
QY      448 TCGGTTAATACCCGGGAGCATGACATTAAGTGTGCAAGTAAGCAACCGGCTAACCTGTGTC 507
Db      424 TAACTTAATAGTTATGTTGTTTGAAGTTAACGAGTAAGCAACCGGCTAACCTGTGTC 483
QY      508 CAGCAGCGCGGTAAATACAGAGGTGCAAGCTTAATGGAATTAATCTGGGCTTAAGCGA 567
Db      484 CAGCAGCGCGGTAAATACAGAGGTGCAAGCTTAATGGAATTAATCTGGGCTTAAGCGC 543
QY      568 GGTAGGTGGCTTAATTAAGTCAAGTGAATCCCGGGCTTAACCTGGGAACCTGCATCT 627
Db      544 GGTAGGTGGCTTAATTAAGTGAATCCCGGGCTTAACCTGGGAACCTGCATCT 603
QY      628 GAACTGTTAGCTAGATGAGTGAAGGAGAAATTTCAAGTGTAGCGGTGAATG 687
Db      604 AAAACTGAACAAGCTAGATGAGTGAAGGAGAAATTTCTGTGTAGCGGTGAATG 663
QY      688 CTTAAGATCTGAAGAAATACCGATGCGAAGGCAAGCTTCTGCGCATCTAATCTGACACTG 747
Db      664 CTTAAGATCTGAAGAAATACCGATGCGAAGGCAAGCTTCTGCGCATCTAATCTGACACTG 723
QY      748 AGGCTCGAAAGCGGTGAGCAACAGATTAATGATACCTGGTAGCCAGCGCGTAAAG 807
Db      724 AGGCTCGAAAGCGGTGAGCAACAGATTAATGATACCTGGTAGCCAGCGCGTAAAG 783
QY      808 ATGTCTACTAGTCTGTGGGTCCCTTAGAGACTTATGACGACGCTAACCAATTAAGTAG 867
Db      784 ATGTCAATAGCCGTTGGGAGCCTTAGGCTTATAGTGGGAGCTTAAGCAATTAAGTTGA 843
QY      868 CGGCTCGGGAGTAGACGCGCGCAAGGTTAAAACCTCAATATTAATGACGGGGGCCGACAA 927
Db      844 CGGCTCGGGAGTAGACGCGCGCAAGGTTAAAACCTCAATATTAATGACGGGGGCCGACAA 903
QY      928 GCGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCTGCTGTGACATA 987
Db      904 GCGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCAAGCCTTGAATC 963
QY      988 CACAGATCTGTAGAGATACAGAGAGTGCCTTCGGGAATTGTGATACAGGTGCTGCATG 1047
```

Db 964 CAAATGAATCTTCCAGAGATGATGGTGGCTTCGGAAACATTAAGACAGGCTCGATGAG 1023
Qy 1048 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGAACAGAGCAACCTTGT 1107
Db 1024 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGTAACAGAGCAACCTTGT 1083
Qy 1108 CCTTAATTACCAACAC- TTCCGGGTGGAACTCTAAGGATATCTCCAGTGAACAACTGGAG 1166
Db 1084 CCTTAATTACCAACAGATATGTTGGGCACTCTAAGAGACTGCCGCTGACAAACCGGAG 1143
Qy 1167 GAAAGGGGGAGACACGTCAAGTATGATGAGCCCTTAAGACAGAGCTACACAGCTGTAC 1226
Db 1144 GAAAGTGGGGATACGTCAAGTATGATGAGCCCTTAAGAGCTGTGGCTTACACAGTGTAC 1203
Qy 1227 AATGTAGGTACAGAGGACAGTACACAGCATGTGATGCGAATCTCAAAAAGCCTATCG 1286
Db 1204 AATGTCTGTTACAGAGGTTTGCACAGCCGAGTGGAGCTATCCACAAAACCGATCG 1263
Qy 1287 TACTCCAGATTGAGTCTGCACTCGAATCTCATGAAGTGAAGAAATCCGTAGTAATCCGCGA 1346
Db 1264 TACTCCGATCGCAGTCTGCACTCGAATCTCGTGAAGTCCGAATCCGTAGTAATCCGCGA 1323
Qy 1347 TCGAATGCGCGCGGTGAATACGTTCCCGGCGCTTTGACACACCGCCCGTCAACATCGG 1406
Db 1324 TCGAATGTTGCGCGGTGAATACGTTCCCGGCGCTTTGACACACCGCCCGTCAACATCGG 1383
Qy 1407 AGTTGATTGACAGGAAGTGGTTAGCCTAA-CTTAAGTGAAGGCGATCAACACGGTGTGT 1465
Db 1384 AGTGGGTTGACACGAAGTACGTAGTAACTTTCCGGAGAGACGGTTACACCGGTGTGT 1443
Qy 1466 CGATGACTGGGGTGAAGTCTGTAAACAAGTACCGGTAGGGAACTTGGCGCTGATCAC 1523
Db 1444 TCATGACTGGGGTGAAGTCTGTAAACAAGTACCGGTAGGGAACTTGGCGCTGATCAC 1501
RESULT 12
US-10-133-404A-1
/ Sequence 1, Application US/10133404A
/ Publication No. US20030104302A1
/ GENERAL INFORMATION:
/ APPLICANT: Teutomu Honma
/ APPLICANT: Teiuya Yano
/ APPLICANT: Teiuyoshi No. US20030104302A1cto
/ APPLICANT: Shinya Kozaki
/ TITLE OF INVENTION: Construct and Method for Making It
/ FILE REFERENCE: CPO16374
/ CURRENT APPLICATION NUMBER: US/10/133,404A
/ CURRENT FILING DATE: 2002-08-15
/ PRIOR APPLICATION NUMBER: JP P2001-131694
/ PRIOR FILING DATE: 2001-04-27
/ PRIOR APPLICATION NUMBER: JP P2001-208704
/ PRIOR FILING DATE: 2001-07-10
/ NUMBER OF SEQ ID NOS: 13
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain
US-10-133-404A-1
Query Match 72.0%; Score 1098.6; DB 5; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1,6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Db 124 GAAAGGAGCGCTAATACCCGATACGTCTACCGGAGAAAGCAGGGGACCTTGGGCGTTG 183
Qy 209 CGCTATTAGATGACCTTAAGTCCGATTAAGTATGATGTGGGTAAAGGCTTACATGGG 268
Db 184 CGCTATTAGATGACCTTAAGTCCGATTAAGTATGATGTGGGTAAAGGCTTACATGGG 243
Qy 269 AGGATCTGATGCTGTCTGAGAGATGATCAGCCACACCGGGACCTGAGACAGGCGCGGA 328
Db 244 AGGATCTGATGCTGTCTGAGAGATGATCAGCCACACCTGAGACAGGCGCGGA 303
Qy 329 CT-CTACGGAGAGCAGCAGTGGGGAATATTGACATATGAGGGAACCTGTATCCAGCAT 387
Db 304 CTCTACGGAGAGCAGCAGTGGGGAATATTGAGCAATGGGCGAAGACCTGTATCCAGCAT 363
Qy 388 GCGCGGTGTGTAAGAAAGGCGCTTTGGTTGTAAAGCATTTAAGCATGTAAGAGACTCT 447
Db 364 GCGCGGTGTGTAAGAAAGGCTTTGGATTGTAAAGCATTTAAGTTGGAGAGAAAGGCAT 423
Qy 448 TCGGTTAATACCGGGAGAGATGACATTAGCTGCAAGAAATAGACCGGCTAATCTGTGC 507
Db 424 TAACTTAATACGTTAGTGTTTTGAAGTACCGACAGAAATAGACCGGCTAATCTGTGC 483
Qy 508 CAGCAGCCGCGGTATATACAGAGGTCACAGCCTTAATCCGAAATTAAGTGGGCGTAAAGCA 567
Db 484 CAGCAGCCGCGGTATATACAGAGGTCACAGCCTTAATCCGAAATTAAGTGGGCGTAAAGCA 543
Qy 568 GCGTAGTGGCTTGAATAGTCAAGTGAATATCCCGGCTTAACTGCGAACTGCATCT 627
Db 544 GCGTAGTGGCTTGAATAGTGAATATCCCGGCTTAACTGCGAACTGCATCT 603
Qy 628 GAAACTGTTAGCTTAAGTATAGTGAAGGGAAGTAAATTTACAGTGTACCGGTGAAGT 687
Db 604 AAAACTGAACAAGTATAGTGAAGGAGTGAAGTCTTGTGTAGCGGTGAAGT 663
Qy 688 CGTAGAGTCTGAAGGAATACCGATGCGAAGGCAAGCTTCTGCGCATCACTGACACTG 747
Db 664 CGTAGATTAAGGAAGGAACACAGTGGCGAAGCGACACCTGAGTACGATCAGACTG 723
Qy 748 AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTAAAG 807
Db 724 AGGTGCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTAAAG 783
Qy 808 ATGTCTAATAGTGTGGTCCCTTGAAGACTTAAGTGAAGCGCACTTAACGAATTAAGTGA 867
Db 784 ATGTCTAATAGTGTGGTCCCTTGAAGACTTAAGTGAAGCGCACTTAACGAATTAAGTGA 843
Qy 868 CGGCTGGGGAGTACGCGCGCAAGTTAAACTCAATGAAATTTGAAGGAGCGCGCAACAA 927
Db 844 CGGCTGGGGAGTACGCGCGCAAGTTAAACTCAATGAAATTTGAAGGAGCGCGCAACAA 903
Qy 928 GCGGTGAGCATGTGTTAATTGATGCAACCGCAAGAACTTACCTGTGTCTTGACATA 987
Db 904 GCGGTGAGCATGTGTTAATTGATGCAACCGCAAGAACTTACCTGTGTGTGACATC 963
Qy 988 CACAGAACTTGTAGAGATACGAGATGCTTTGGGAAATTTGATACAGGTGTGCATGG 1047
Db 964 CAATGAATCTTCCAGAGATGATGAGTGGCTTTGGGAACTTAAGACAGGTGTGCATGG 1023
Qy 1048 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGTAACAGAGCAACCTTGT 1107
Db 1024 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGTAACAGAGCAACCTTGT 1083
Qy 1108 CCTTAATTACCAACAC- TTCCGGGTGGAACTCTAAGGATATCTCCAGTGAACAACTGGAG 1166
Db 1084 CCTTAATTACCAACAGATATGTTGGGCACTCTAAGAGACTGCCGCTGACAAACCGGAG 1143
Qy 1167 GAAAGGGGGAGACACGTCAAGTATGATGAGCCCTTAAGAGCTGTAGACAGGCTTACACAGTGTAC 1226
Db 1144 GAAAGTGGGGATACGTCAAGTATGATGAGCCCTTAAGAGCTGTAGACAGGCTTACACAGTGTAC 1203
Qy 1227 AATGTAGGTACAGAGGACAGTACACAGGATGTGATGGAATCTCAAAAAGCCTATCG 1286

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Db      1204 AATGTCGGTACAGAGGGTTCCAGACCCGGAGGTGAGCTAATCCACAAAACCGATCG 1263
Qy      1287 TAGTCAGATTGGAGTCTGCAACTCGACTCATGAAGTAGAATCGCTAGTAATCCGCGA 1346
Db      1264 TAGTCCGGATCGAGTCTGCAACTCGACTCATGAAGTAGAATCGCTAGTAATCCGCGA 1323
Qy      1347 TCAGAAATGCCCGCGGTGAATACGTTCCCGGGCTTTGTACACACCGCCGTCACATCGG 1406
Db      1324 TCAGAAATGTCGCGGTGAATACGTTCCCGGGCTTTGTACACACCGCCGTCACATCGG 1383
Qy      1407 AGTGAATTTGCAACAGAGTGTAGCTTA-CTTAGTAGAGGAGATCAACAGGTGTGCT 1465
Db      1384 AGTGGTTTGCACAGAGTGTAGCTTA-CTTAGTAGAGGAGATCAACAGGTGTGCT 1443
Qy      1466 CGATGACTGGGGTGAAGTGTAGCTTAACAGGTAGCGGTAGGGGAACCTGCGGTGATCAC 1523
Db      1444 TCATGACTGGGGTGAAGTGTAGCTTAACAGGTAGCGGTAGGGGAACCTGCGGTGATCAC 1501

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RESULT 13
US-10-242-696-1
; Sequence 1, Application US/10242696
; Publication No. US20030180899A1
; GENERAL INFORMATION:
; APPLICANT: Honma, Tsutomu
; APPLICANT: Kobayashi, Toyoko
; APPLICANT: Yano, Tetsuya
; APPLICANT: Kobayashi, Shin
; APPLICANT: Imanura, Takeshi
; APPLICANT: Suda, Sakae
; TITLE OF INVENTION: Process for producing polyhydroxyalkanoate by utilizing microorga
; FILE REFERENCE: 03500.015010.1
; CURRENT APPLICATION NUMBER: US/10/242,696
; PRIOR FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: JP 11-371864
; PRIOR FILING DATE: 12-27-1999
; PRIOR APPLICATION NUMBER: JP 11-371867
; PRIOR FILING DATE: 12-27-1999
; PRIOR APPLICATION NUMBER: JP 11-371868
; PRIOR FILING DATE: 12-27-1999
; PRIOR APPLICATION NUMBER: JP 11-371869
; PRIOR FILING DATE: 12-27-1999
; PRIOR APPLICATION NUMBER: JP 2000-023024
; PRIOR FILING DATE: 01-31-2000
; PRIOR APPLICATION NUMBER: JP 2000-023025
; PRIOR FILING DATE: 01-31-2000
; PRIOR APPLICATION NUMBER: JP 2000-361323
; PRIOR FILING DATE: 11-28-2000
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jesseni P161 ; FERM P-17445
US-10-242-696-1

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Query Match      72.0% ; Score 1098.6 ; DB 6 ; Length 1501 ;
Best Local Similarity 85.9% ; Pred. No. 1.6e-288 ;
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6 ;

```

```

Qy      30 GGGGCGAGCTTAACATGCAATGCGAGCGGAAACGATGATAGCTTGTATTAAGCGCTC 89
Db      9 GGGGCGAGGCTTAACATGCAATGCGAGCGG--ATGAGCGGAGCTTGTCTCGAATTGA 66
Qy      90 GAGCAGCCGGAACGGGTGAGTAACTTTAGGAATCTAAGTGTAGTGGGAGATAGCTCGG 149
Db      67 G---CGGCGAGCGGTGAGTAACTTTAGGAATCTAAGTGTAGTGGGAGATAGCTCTC 123
Qy      150 GAAGCTGAATTAATCCGATTAAGT-CTTAGCGGAGAGAGAGCGGGGNTCAATGACCTTG 208
Db      124 GAAGGAGGAGCTTAATCCGATTAAGTCTTAGCGGAGAGAGAGGAGGACCTTGGGCTTG 183

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Qy      209 CGCTATTAGATGAGCTTAAGTGAATTAAGTGTAGTGGGTAAAGGCTTACATGACG 268
Db      184 CGCTATTAGATGAGCTTAAGTGAATTAAGTGTAGTGGGTAAAGGCTTACATGACG 243
Qy      269 AGGATCTGTAGTGGTCTGAGAGATGATCAGCCACACCGGAGCTGAGACAGGCCGGA 328
Db      244 AGGATCTGTAGTGGTCTGAGAGATGATCAGCTCAGCTGGAATCTGAGACAGGCCGGA 303
Qy      329 CT-CTTAGCGGAGAGAGAGTGGGAAATTTGAGCAATGGGGAACCCGATCCAGCCAT 387
Db      304 CTCTTAGCGGAGAGAGAGTGGGAAATTTGAGCAATGGGGAACCCGATCCAGCCAT 363
Qy      388 GCCGCGTGTGTGAAGAAGCCCTTTTGTGTGAAGCACTTTAAGCAGTGAAGAAGACTCT 447
Db      364 GCCGCGTGTGTGAAGAAGCTTTCGGAATTTGAAGCACTTTAAGTTGGAGAGAGGCAAT 423
Qy      448 TGGGTTAATCCCGGAGAGATGACATTAAGTCTGCAAGATAGCACCGGCTTAATCTGTGC 507
Db      424 TAACTTAATACGTTAGTGTGTGTGACGTTAACGACAGAAATTAACACCGGCTTAATCTGTGC 483
Qy      508 CAGCAGCCGCGGTAAATACAGAGAGGTGCAAGCGTTAATCGGAATTAATCGGGCGTAAAGCA 567
Db      484 CAGCAGCCGCGGTAAATACAGAGAGGTGCAAGCGTTAATCGGAATTAATCGGGCGTAAAGCC 543
Qy      568 GCGTAGTGTGTGAATAGTCAAGTGTGAATCCCGGCTTAACTGAGGAACTGATCT 627
Db      544 GCGTAGTGTGTGTGAATAGTGTGAATCCCGGCTTAACTGAGGAACTGATCT 603
Qy      628 GAAGCTGTAGGCTTGAATAGTGTGAAGGGAAGTGAATTTGAGTGTAGGCGTGAATG 687
Db      604 AAAGCTGACAGCTGAGTGTGAAGGAGTGTGAATTTGCTGTGTAGCGGTGAATG 663
Qy      688 CGTAGAGATCTGAAGAAATACCGATGCGGAGGAGCGCTTCCGGATCATCTGACACTG 747
Db      664 CGTAGATTTAGAGAGAAACCAAGTGTGAGGAGGAGCAACCTGATCTGATGACACTG 723
Qy      748 AGGCTGAAAGCGTGGGTAGCAACAGATTAAGTATCCGTGTAGTCCAGCGGTAAAG 807
Db      724 AGGCTGAAAGCGTGGGTAGCAACAGATTAAGTATCCGTGTAGTCCAGCGGTAAAG 783
Qy      808 ATGTTACTAGTCTGTTGGGTCCCTTGAGGACTTAAGTACGCGCTTAAGCAATTAAGTGA 867
Db      784 ATGTTACTAGTCTGTTGGGTCCCTTGAGGACTTAAGTACGCGCTTAAGCAATTAAGTGA 843
Qy      868 CCGCTGGGAGATGAGCGCGCAAGGTTAAATCAATGAATTTGACGGGGGCGGACAA 927
Db      844 CCGCTGGGAGATGAGCGCGCAAGGTTAAATCAATGAATTTGACGGGGGCGGACAA 903
Qy      928 GCGGTGAGCATGTGTTAATTCGATGCAACGCAAGAACCTTACTGTCTTGACATA 987
Db      904 GCGGTGAGCATGTGTTAATTCGATGCAACGCAAGAACCTTACTGTCTTGACATA 963
Qy      988 CACAGATCTTGTAGATACAGAGTGTCTTGGGAAATTTGATACAGGTCTGTGATG 1047
Db      964 CAAATGAATCTTTCACAGATGAGTGTGTCTTGGGAAATTTGATACAGGTCTGTGATG 1023
Qy      1048 CTGCTGAGCTGCGTGTGTGATGTTGGGTTAAGTCCCGAAGAGGCAACCTTGT 1107
Db      1024 CTGCTGAGCTGCGTGTGTGATGTTGGGTTAAGTCCCGAAGAGGCAACCTTGT 1083
Qy      1108 CTTTATTAACAGCAC-TTCCGTTGGGAACTTTAAGATTAAGTCCAGAGTGAACATGAG 1166
Db      1084 CTTTATTAACAGCACGTAATGTTGGGAACTTTAAGATTAAGTCCAGAGTGAACATGAG 1143
Qy      1167 GAAGCGGGGAGAGAGTCAATGATGAGGCTTTAAGCAACAGGCTTACACGTTGCTAC 1226
Db      1144 GAAGGTGGGAGTGAAGTCAATGATGAGGCTTTAAGCAACAGGCTTACACGTTGCTAC 1203
Qy      1227 AATGTAGTACAGAGGAGCTTACAGCGATGAGTGAATGCGAATCAAAAAAGCTTAATG 1286
Db      1204 AATGTGTGTAGAGGAGTGTGCAAGCGGAGGAGTGAAGCTTAATCCAAAAAGCGATG 1263
Qy      1287 TAGTCAGATTGAGTCTGCAACTGCACTGCAATGAAGTGAAGTGTGAATCGCGGA 1346

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DB 1264 TAGTCCGAGTCGAGTCTGCACTCGCTGAACTCGGAATCCCTGATATCCGCA 1323
QY 1347 TCAGATGCGCGCGGTGAATACGTTCCCGGCTTTGTACAACCGCCGTACACATGCG 1406
DB 1324 TCAGATGTCGGGGTGAATACGTTCCCGGCTTTGTACAACCGCCGTACACATGCG 1383
QY 1407 AGTTGATTCGACCAAGAGTGTAGCTTA-CTTAAGTAGGGGATCACCAGTGTGAT 1465
DB 1384 AGTGGGTTCACACCAAGATGATGCTTAACCTTCGGAGAGACGCTTACACAGTGTGAT 1443
QY 1466 CGATGCTGGGGGAGTGTGATCAAGGTACCGGTAGGGGAACCTGCGGTGATCAC 1523
DB 1444 TCATGACTGGGGTGAAGTCTTACCAAGTACCGCTAGGGGAACCTGCGGTGATCAC 1501

RESULT 14
US-10-411-319-1

/ Sequence 1, Application US/10411319
/ Publication No. US20030208029A1
/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polyhydroxamate, Method For Production Thereof And Microorganisms
/ FILE REFERENCE: 03500.015001.1
/ CURRENT APPLICATION NUMBER: US/10/411,319
/ PRIOR FILING DATE: 2003-04-11
/ PRIOR APPLICATION NUMBER: US 09/748,205
/ NUMBER OF SEQ ID NOS: 1
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain
US-10-411-319-1

Query Match 72.0%; Score 1098.6; DB 6; Length 1501;

Best Local Similarity 85.9%; Pred. No. 1.6e-288;

Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GGGGCGAGGCTTAACACATGCAAGTCGAGGGAACGATGATAGCTTGAATTAAGGCTC 89
DB 9 GGGGCGAGGCTTAACACATGCAAGTCGAGGCG--ATGACGAGCTTCTCTGAATTCA 66
QY 90 GAGNCGCGGACGGGTGAGTAATCTTAAGAACTCACTAGTAGGGGATAGCTCGG 149
DB 67 G---CGGCGAGCGGTGAGTAATCTTAAGAACTCACTAGTAGGGGATAGCTCGG 123
QY 150 GAAACTGGAATTAATACCGCATACGT-CTACGGGAGAAAGCAGGGGNTCAATTAAGCCTTG 208
DB 124 GAAAGGAGCGCTTAATACCGCATACGTCTACGGGAGAAAGCAGGGGACCTTCCGGGCTTG 183
QY 209 CGCTATTAGATGAGCTTAATGCTCGATTAAGTATGCTGGGTGAAGGCTTACCATGCG 268
DB 184 CGCTATTAGATGAGCTTAAGTATGCTCGATTAAGTATGCTGGGTGAAGGCTTACCATGCG 243
QY 269 ACGATCTGTAGCTGTCTGAGAGGATGATCAGCACACCGGGACTGAGACACGCGCGGA 328
DB 244 ACGATCTGTAGCTGTCTGAGAGGATGATCAGCACACCGGGACTGAGACACGCGCTCAGA 303
QY 329 CT-CTACGGAGGAGCAGTAGTGGGGAATATTGACAATAGNGGGAACCTTATCCAGCCAT 387
DB 304 CTCTTACGGAGGAGCAGTAGTGGGGAATATTGACAATAGNGGGAACCTTATCCAGCCAT 363
QY 388 GCGCGGTGTGGAAGAGGCTTTTGTGTGAAGCACTTTAACCAGTGAAGAGACTCT 447
DB 364 GCGCGGTGTGGAAGAGGCTTTTGTGTGAAGCACTTTAACCAGTGAAGAGGCGAT 423
QY 448 TCAGTTAATACCGCGGAGCAGTATGATGAGAAATAGACACCGGCTAATCTGTGC 507
DB 424 TAACCTAATACGTTAGTGTTTTGAAGCTTACCGAAGAAATAGACACCGGCTAATCTGTGC 483

QY 508 CAGCAGCCGCGTAAATACAGAGGTGCAAGCTTAACTCGAATTAATCTGGCGTAAAGCGA 567
DB 484 CAGCAGCCGCGTAAATACAGAGGTGCAAGCTTAACTCGAATTAATCTGGCGTAAAGCGC 543
QY 568 GCGTAGTGTGTTAATGATGATGTAATCTCCCGGCTTAACTGGGAACTGATCT 627
DB 544 GCGTAGTGTGTTAATGATGATGTAATCTCCCGGCTTAACTGGGAACTGATCT 603
QY 628 GAAACTGTAAGCTTAGATAGTGAAGGGAAGTGAATTTGACGGTGTACCGGTGAATG 687
DB 604 AAAAATGCAACCTAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 663
QY 688 CGTAGATCTGAAAGGATACCAATGCGAAGGACCTTCTGGCATCAATCACTGACACTG 747
DB 664 CGTAGATCTGAAAGGATACCAATGCGAAGGACCTTCTGGCATCAATCACTGACACTG 723
QY 748 AAGCTTGAAAGCGTGTGAGCAAAACGATTAATGATACCTGTGATGTCACGCGTAAACG 807
DB 724 AAGTGGAAAGCGTGTGAGCAAAACGATTAATGATACCTGTGATGTCACGCGTAAACG 783
QY 808 ATGTCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 867
DB 784 ATGTCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 843
QY 868 CGGCTGGGGAGTACGCGCGCAAGGTTAAACTCAATGATTAAGCGGGGCGCGGACAA 927
DB 844 CGGCTGGGGAGTACGCGCGCAAGGTTAAACTCAATGATTAAGCGGGGCGCGGACAA 903
QY 928 GCGGTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 987
DB 904 GCGGTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 963
QY 988 CACAGAACTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1047
DB 964 CACAGAACTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1023
QY 1048 CTGTGTCAGCTGTGTGTCGATGATGATGATGATGATGATGATGATGATGATGATGATG 1107
DB 1024 CTGTGTCAGCTGTGTGTCGATGATGATGATGATGATGATGATGATGATGATGATGATG 1083
QY 1108 CTTTATGTTACCAACAC-TTGCGGTGGGAACTTAAGGATTAATGATGATGATGATGATG 1166
DB 1084 CTTTATGTTACCAACAC-TTGCGGTGGGAACTTAAGGATTAATGATGATGATGATGATG 1143
QY 1167 GAGGCGGGAGCAAGCTCAAGTATCATGATGATGATGATGATGATGATGATGATGATG 1226
DB 1144 GAGGCGGGAGCAAGCTCAAGTATCATGATGATGATGATGATGATGATGATGATGATG 1203
QY 1227 AATGTAAGTACAGAGGAGCTTACAGGATGATGATGATGATGATGATGATGATGATGATG 1286
DB 1204 AATGTAAGTACAGAGGAGCTTACAGGATGATGATGATGATGATGATGATGATGATGATG 1263
QY 1287 TAGTCGATTTGAGTCTGCACTGCACTCATGAATGATGAATTCGTAATTCGCGGA 1346
DB 1264 TAGTCGATTTGAGTCTGCACTGCACTCATGAATGATGAATTCGTAATTCGCGGA 1323
QY 1347 TCAGATGCGCGGTGAATACGTTCCCGGCTTTGTACAACCGCCGTACACATGCG 1406
DB 1324 TCAGATGCGCGGTGAATACGTTCCCGGCTTTGTACAACCGCCGTACACATGCG 1383
QY 1407 AGTTGATTCGACCAAGAGTGTAGCTTA-CTTAAGTAGGGGATCACCAGTGTGAT 1465
DB 1384 AGTGGGTTCACACCAAGATGATGCTTAACCTTCGGAGAGACGCTTACACAGTGTGAT 1443
QY 1466 CGATGCTGGGGGAGTGTGATCAAGGTACCGGTAGGGGAACCTGCGGTGATCAC 1523
DB 1444 TCATGACTGGGGTGAAGTCTTACCAAGTACCGCTAGGGGAACCTGCGGTGATCAC 1501

RESULT 15

US-10-649-646-1

/ Sequence 1, Application US/10649646
/ Publication No. US2004006576A1

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/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polyhydroxymate, Method For Production Thereof And Microorganisms
/ TITLE OF INVENTION: In The Same
/ FILE REFERENCE: 03500.015001.2
/ CURRENT APPLICATION NUMBER: US/10/649,646
/ PRIOR FILING DATE: 2003-08-28
/ PRIOR APPLICATION NUMBER: JP 11-371863
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 2000-023078
/ PRIOR FILING DATE: 2000-01-31
/ PRIOR APPLICATION NUMBER: JP 2000-023080
/ PRIOR FILING DATE: 2000-01-31
/ PRIOR APPLICATION NUMBER: JP 2000-023083
/ PRIOR FILING DATE: 2000-01-31
/ PRIOR APPLICATION NUMBER: JP 2000-095011
/ PRIOR FILING DATE: 2000-03-30
/ PRIOR APPLICATION NUMBER: JP 2000-095012
/ PRIOR FILING DATE: 2000-03-30
/ PRIOR APPLICATION NUMBER: JP 2000-095013
/ PRIOR FILING DATE: 2000-03-30
/ PRIOR APPLICATION NUMBER: JP 2000-207089
/ PRIOR FILING DATE: 2000-07-07
/ PRIOR APPLICATION NUMBER: JP 2000-207091
/ PRIOR FILING DATE: 2000-07-07
/ PRIOR APPLICATION NUMBER: JP 2000-359789
/ PRIOR FILING DATE: 2000-11-27
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 1
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain
US-10-649-646-1

Query Match      72.0%; Score 1098.6; DB 7; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1.6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY      30 GCGCGAGGCTTAACATGCAAGTGCAGCGGAAAGATGATAGCTTGTCTATTAGACGTC 89
DB      9 GCGCGAGGCTTAACATGCAAGTGCAGCGG--ATGACGGGAGCTTGTCTCTGAATTGA 66
QY      90 GAGCAGCCGAGCGGAGTAACTTAAGAACTCTAGTATGAGGAGTATGCTCGG 149
DB      67 G---CGCGGAGCGGAGTAACTGCTTAAGAACTCTGATGAGGAGCAAGCTTC 123
QY      150 GAAACTCGAATTATATCCGCATACGT-CTACGGGAGAAAGCAAGGGATCATTAAGACTT 208
DB      124 GAAAGGAGCGTAAATACCCCATACGCTTACGGGAGAAAGCAAGGGAACCTTCGGGCTTG 183
QY      209 CGCTATTATAGAGCTTAAGTGGATTAAGTATGATGAGGAGTAAAGGCTTACATGAGG 268
DB      184 CGCTATCAATAGAGCTTAAGTGGATTAAGTATGATGAGGAGTAAAGGCTTACCAAGGG 243
QY      269 ACGATCTAGCTGCTGAGAGATGATCAAGCACAAGGAGCTGAGACAGGCGCGGA 328
DB      244 ACGATCCGTAATGCTGATGAGAGATGATCAAGCACAAGGAGCTGAGACAGGCTCAGA 303
QY      329 CT-CTACGGGAGGACAGTGGGAAATTATGCAATATGAGGAAACCTGATCCAGCCAT 387
DB      304 CTCTCTACGGGAGGACAGTGGGAAATTATGCAATATGAGGAAACCTGATCCAGCCAT 363
QY      388 GCGCGCTGTGTGAAGAGGCTTTTGTGTGAAGACCTTTAAGCAGTGAAGAACTCT 447
DB      364 GCGCGCTGTGTGAAGAGGCTTTTGTGTGAAGACCTTTAAGTGGAGAGAAAGGCAAT 423
QY      448 TCGGTTAATACCGGGGAGCATGACATTAAGCTGACAGATTAAGACCGGCTAACTCTGTGC 507
DB      424 TAACTTAATACGTTAGTGTGTTGACCTTAACGACAAATTAAGACCGGCTAACTCTGTGC 483
QY      508 CAGCAGCCGCGGTAATATCAGAGGGTGCAAGCGTTAATCGGAAATTACTGGGCGTAAAGCGA 567
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DB      484 CAGCAGCCGCGGTAATATCAGAGGGTGCAAGCGTTAATCGAATTACTGGGCTAAAGCCG 543
QY      566 GCGTATGCTGCTTAAGTCAAGTGAATATCCCGGCTTAACCTGGAATCGATCT 627
DB      544 GCGTATGCTGCTTAAGTCAAGTGAATATCCCGGCTTAACCTGGAATCGATCT 603
QY      628 GAACTGTATGCTGAGTGAAGTGAAGGAAATTTTCAAGTGTAGCGGTGAATG 687
DB      604 AAATGACAGAGTGAAGTGAAGTGAAGGAGTGAAGTTCCTGTATGAGCGGTGAATG 663
QY      688 CGTAGAGTCTGAAGAAATACGATGCGAAGGCAAGCTTCTGATCATATCTGACACTG 747
DB      664 CGTATATATAGAAAGAAACACGATGCGAAGGCAAGCTGATCTGATCTGACACTG 723
QY      748 AGGCTGAAAGGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 807
DB      724 AGGCTGAAAGGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 783
QY      808 ATGTCTACTAGTCTGTGGGTCCTTGAAGACTTAAGTGAAGTGAAGTGAAGTGAAGTGAAG 867
DB      784 ATGTCTACTAGTCTGTGGGTCCTTGAAGACTTAAGTGAAGTGAAGTGAAGTGAAGTGAAG 843
QY      868 CCGCTGAGGAGTACGCGCGCAAGGTTAAACTCAATGAATTGAAGGAGGCGCCGACAA 927
DB      844 CCGCTGAGGAGTACGCGCGCAAGGTTAAACTCAATGAATTGAAGGAGGCGCCGACAA 903
QY      928 GCGGTGAGCAGTGTGTTAATTCATGCAACGCAAGAACTTACCTGCTGTATGACATTA 987
DB      904 GCGGTGAGCAGTGTGTTAATTCATGCAACGCAAGAACTTACCTGCTGTATGACATTA 963
QY      988 CACAGAACTTGTAGATATACGAGAGTGCCTTCGGAATTTGTATATACAGTGTCTCATAG 1047
DB      964 CAATGAATCTTTCAGATATGATGAGTGTGCTTCCGGAACTTGAACAGAGTGTCTCATAG 1023
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DB      1024 CTGTCTACGCTGTGTGTGATGATGTTGGTTAAGTCCCGCAAGCAGGCGCAACCTTGT 1083
QY      1108 CTTTATGTAACGACAC-CTCGGTGAGGAACTTGAAGTATCTGCAAGTGAAGAACTGAG 1166
DB      1084 CTTTATGTAACGACACGTAATGTGTGAGCACTTGAAGAGTGTGCGGTGAAGAACTGAG 1143
QY      1167 GAAGCGGAGGAGCAAGTCAAGTCAATGAGCTTACAGCAGGCTTACACAGTGTCTAC 1226
DB      1144 GAAGTGTGAGGAGTCAAGTCAATGAGCTTACAGCAGGCTTACACAGTGTCTAC 1203
QY      1227 AATGTAGGTATCAGAGGCAAGCTTACAGCAGTGTGTGATGCAATTCAAAAAGCTTATG 1286
DB      1204 AATGTAGGTATCAGAGGCAAGCTTACAGCAGTGTGTGATGCAATTCAAAAAGCTTATG 1263
QY      1287 TAGTCAATGTAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1346
DB      1264 TAGTCAATGTAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1323
QY      1347 TCAGATATGCGGAGTGAATAGCTTCCCGGCTTATACACACCGGCTTACACCATGAG 1406
DB      1324 TCAGATATGCGGAGTGAATAGCTTCCCGGCTTATACACACCGGCTTACACCATGAG 1383
QY      1407 AGTTATGTCACAGAAATGTTAGCTTAA-CTTATGAGGAGGATCAACAGTGTGTG 1465
DB      1384 AGTTATGTCACAGAAATGTTAGCTTAA-CTTATGAGGAGGATCAACAGTGTGTG 1443
QY      1466 CGATGACGTTGGTGAAGTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1523
DB      1444 TCATGACGTTGGTGAAGTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1501
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Job time : 1623.84 secs